Index of Authors and Titles

Abbasi, A. *See* Macpherson, A. J. S.

Abbott, N. J., Hughes, C. C. W., Revest, P. A. and Greenwood, J. Development and characterization of a rat brain capillary endothelial culture: towards an in vitro blood-brain barrier **103**, 23

Abramovici, A. *See* Weintraub, H.

Adames, N. R. *See* Coukell, M. B.

Adelson, D. L. *See* Campbell, M. T.

Ager, A. *See* Szekanecz, Z.

Ahmad, K. *See* Naz, R. K.

Akiyama, S. K. *See* Kim, L. T.

Alexiou, M. *See* Thomopoulos, G. N.

Allen, R. D., Schroeder, C. C. and Fok, A. K. Endosomal system *Paramecium*: coated pits to early endosomes **101**, 449

Allen, T. *See* Solovei, I.

Aller, P. *See* Gonzalez-Fernandez, A.

Aller, P. *See* Rius, C.

Almahbobi, G., Williams, L. J. and Hall, P. F. Attachment of steroidogenic lipid droplets to intermediate filaments in adrenal cells **101**, 383

Althaus, F. R. Poly ADP-ribosylation: a histone shuttle mechanism in DNA excision repair **102**, 663

Amichai, D. *See* Weintraub, H.

Anamthawat-Jónsson, K. *See* Schwarzacher, T.

Anderson, C. M., Georgiou, G. N., Morrison, I. E. G., Stevenson, G. V. W. and Cherry, R. J. Tracking of cell surface receptors by fluorescence digital imaging microscopy using a charge-coupled device camera. Low-density lipoprotein and influenza virus receptor mobility at 4°C **101**, 415

Angrand, P.-O., Rousset, J.-P. and Weiss, M. C. Cell phenotype, binding affinity and promoter structure modulate transactivation by HNF1 and LAP **103**, 1083

Ansel, P. *See* Swanson, J. A.

Antony, C., Cibert, C., Géraud, G., Santa Maria, A., Maro, B., Mayau, V. and Goud, B. The small GTP-binding protein rab6p is distributed from medial Golgi to the *trans*-Golgi network as determined by a confocal microscopy approach **103**, 785

Aotaki-Keen, A. *See* Martins-Green, M.

Aplin, J. D., Sattar, A. and Mould, A. P. Variant choriocarcinoma (BeWo) cells that differ in adhesion and migration on fibronectin display conserved patterns of integrin expression **103**, 435

Arana, P. *See* Nicklas, R. B.

Archer, C. W. *See* Stephens, M.

Arciniegas, E., Ellen, T. D. and Schor, A. M. Transforming growth factor beta-1 promotes the differentiation of endothelial cells into smooth muscle-like cells in vitro **103**, 521

Arikawa, K. *See* Williams, D. S.

Armstrong, M. T. and Armstrong, P. B. Mechanisms of epibolic tissue spreading analyzed in a model morphogenetic system: roles for cell migration and tissue contractility **102**, 373

Armstrong, P. B. *See* Armstrong, M. T.

Arneson, M. *See* TenBroek, E.

Arnold, C. *See* Simo, P.

Asaga, H. and Yoshizato, K. Recognition of collagen by fibroblasts through cell surface glycoproteins reactive with *Phaseolus vulgaris* agglutinin **101**, 625

Ash, J. J. *See* Chow, T. Y.-K.

Aten, J. A. *See* Manders, E. M. M.

Athanasou, N. A. *See* Quinn, J. M. W.

Ausio, J. Structure and dynamics of transcriptionally active chromatin **102**, 1

Ausserer, W. A. *See* Chandra, S.

Ayad, S. *See* Poole, C. A.

Ayalon, O. *See* Salomon, D.

Azad, A. *See* Dickson, G.

Bailly, E., Pines, J., Hunter, T. and Bornens, M. Cytoplasmic accumulation of cyclin B1 in human cells: association with a detergent-resistant compartment and with the centrosome **101**, 529

Baines, A. J. *See* Woods, A.

Bakalis, S. *See* Cheley, S.

Baker, L. P., Chen, Q. and Peng, H. B. Induction of acetylcholine receptor clustering by native polystyrene beads: implication of an endogenous muscle-derived signalling system **102**, 543

Balsamo, J. *See* Bauer, G. E.

Baluška, F., Parker, J. S. and Barlow, P. W. Specific patterns of cortical and endoplasmic microtubules associated with cell growth and tissue differentiation in roots of maize (*Zea mays* L.) **103**, 191

Bannish, G. *See* Stolz, D. B.

Barlow, P. W. *See* Baluška, F.

Barnes, D. M. *See* Midgley, C. A.

Baroffio, A. and Blot, M. Statistical evidence for a random commitment of pluripotent cephalic neural crest cells **103**, 581

Bártek, J. *See* Midgley, C. A.

Barton, N. R., Bonder, E. M., Fishkind, D. J., Warren, R. H. and Pratt, M. M. A novel vesicle-associated protein (VAP-1) in sea urchin eggs containing multiple RNA-binding consensus sequences **103**, 797

Baskin, R. J. *See* Cole, D. G.

Bauer, G. E., Balsamo, J. and Lilien, J. Cadherin-mediated adhesion in pancreatic islet cells is modulated by a cell surface *N*-acetylgalactosaminylphosphotransferase **103**, 1235

Bayley, H. *See* Cheley, S.

Bayliss, M. T. *See* Stephens, M.

Beaulieu, J.-F. Differential expression of the VLA family of integrins along the crypt-villus axis in the human small intestine **102**, 427

Beevers, L. *See* Lin, H.-B.

Ben-Dor, L. *See* Weintraub, H.

Bennett, F. A. *See* Underwood, P. A.

Bennett, J. H. *See* Beresford, J. N.

Bennett, M. D. *See* Schwarzacher, T.

Benoliel, A.-M. *See* Lepidi, H.

Berdichevsky, F., Gilbert, C., Shearer, M. and Taylor-Papadimitriou, J. Collagen-induced rapid morphogenesis of human mammary epithelial cells: the role of the $\alpha_2\beta_1$ integrin **102**, 437

Bereiter-Hahn, J. *See* Zylberberg, L.

Beresford, J. N., Bennett, J. H., Devlin, C., Leboy, P. S. and Owen, M. E. Evidence for an inverse relationship betweeen the differentiation of adipocytic and osteogenic cells in rat marrow stromal cell cultures **102**, 341

Berg, R. K. *See* Wolff, J. A.

Berry, L., Grant, M. E., McClure, J. and Rooney, P. Bone-marrow-derived chondrogenesis in vitro **101**, 333

Bertorello, A. M. Diacylglycerol activation of protein kinase C results in a dual effect on Na^+,K^+-ATPase activity from intact renal proximal tubule cells **101**, 343

Beug, H. *See* Killisch, I.

Bigotti, A. *See* Natali, P. G.

Binder, L. I. *See* Brown, K. D.
Bissell, M. J. *See* Parry, G.
Bissell, M. J. *See* Martins-Green, M.
Bloch-Gallego, E. *See* Perez, F.
Blot, M. *See* Baroffio, A.
Bof, M., Brénot, F., Gonzalez, C., Klein, G., Martin, J.-B. and Satre, M. *Dictyostelium discoideum* mutants resistant to the toxic action of methylene diphosphonate are defective in endocytosis **101**, 139
Bogner, P., Skehant, P., Kenney, S., Sainz, E. and Friedman, S. J. Stabilization of intercellular contacts in MDCK cells during Ca^{2+} deprivation. Selective effects of monocarboxylic acids on desmosomes **103**, 463
Boikov, P. Y. *See* Brodsky, V. Y.
Bonatti, S. *See* Pavan, A.
Bonaventure, J. *See* Zylberberg, L.
Bonder, E. M. *See* Barton, N. R.
Bongrand, P. *See* Lepidi, H.
Bord, S. *See* Meikle, M. C.
Bornens, M. *See* Bailly, E.
Bourns, B. D. *See* Pryer, N. K.
Bowyer, D. E. *See* Gherardi, E.
Bowyer, D. E. *See* Moorby, G. D.
Brakenhoff, G. J. *See* Manders, E. M. M.
Bravo, R. *See* Leibovici, M.
Brénot, F. *See* Bof, M.
Brian, A. A. *See* Sung, K.-L. P.
Brodsky, V. Y., Boikov, P. Y., Nechaeva, N. V., Yurovitsky, Y. G., Novikova, T. E., Fateeva, V. I. and Schevchenko, N. A. The rhythm of protein synthesis does not depend on oscillations of ATP level **103**, 363
Brooks, R. *See* Kamalati, T.
Brown, D. *See* Shiels, B.
Brown, K. D. and Binder, L. I. Identification of the intermediate filament-associated protein gyronemin as filamin: implications for a novel mechanism of cytoskeletal interaction **102**, 19
Brown, R. C. and Lemmon, B. E. Control of division plane in normal and griseofulvin-treated microsporocytes of *Magnolia* **103**, 1031
Brown, W. J. *See* Lawrence, B. P.
Brown, W. J. *See* Cluett, E. B.
Brunkener, M. and Georgatos, S. D. Membrane-binding properties of filensin, a cytoskeletal protein of the lens fiber cells **103**, 709
Bucci, C. *See* Parton, R. G.
Bullard, B. *See* Newman, R.
Buluwela, L. *See* Kamalati, T.
Burgess, C. C. *See* Chen, M. S.
Burgoyne, R. D. *See* Rennison, M. E.
Burmeister, J. S. *See* Truskey, G. A.
Burridge, K. *See* Nuckolls, G. H.
Butcher, G. W. *See* Newman, R.
Butler, J. M. *See* Lin, H.-B.

Callaham, D. A. *See* Miller, D. D.
Callaini, G. *See* Riparbelli, M. G.
Callow, J. A. *See* Stafford, C. J.
Cameron, A. M. *See* Coukell, M. B.
Campbell, M. T., Dollin, A. E. and Adelson, D. L. Differential lectin binding to presumptive cortical cells of the wool follicle bulb **102**, 353
Cande, W. Z. *See* Cole, D. G.
Canfield, A. E., Wren, F. E., Schor, S. L., Grant, M. E. and Schor, A.M. Aortic endothelial cell heterogeneity in vitro: lack of association between morphological phenotype and collagen biosynthesis **102**, 807
Cannon, G. J. and Swanson, J. A. The macrophage capacity for phagocytosis **101**, 907
Capo, C. *See* Lepidi, H.
Carlson, E. C. *See* Swinscoe, J. C.
Carraway, C. A. C. *See* Carraway, K. L.
Carraway, K. L. III *See* Carraway, K. L.
Carraway, K. L., Fregien, N., Carraway, K. L. III and Carraway, C. A. C. Tumor sialomucin complexes as tumor antigens and modulators of cellular interactions and proliferation **103**, 299
Carroll, J. M. and Taichman, L. B. Characterization of the human involucrin promoter using a transient β-galactosidase assay **103**, 925
Carter, W. G. *See* Kaur, P.
Casteilla, L. *See* Cousin, B.
Cavadore, J.-C. *See* Lorca, T.
Ch'ang, L. Y. *See* Kennel, S. J.
Chain, B. M., Leyshon-Sorland, K. and Siva-Jothy, M. T. Haemocyte heterogeneity in the cockroach *Periplaneta americana* analysed using monoclonal antibodies **103**, 1261
Chakraborty, P. *See* Russell, D. G.
Chandra, S., Ausserer, W. A. and Morrison, G. H. Subcellular imaging of calcium exchange in cultured cells with ion microscopy **102**, 417
Charbonneau, M. *See* Grandin, N.
Charlton, C. A. *See* Volkman, L. E.
Chavrier, P. *See* Peter, M.
Cheek, T. R. *See* Vincent, C.
Cheley, S., Kosik, K. S., Paskevich, P., Bakalis, S. and Bayley, H. Phosphorylated baculovirus p10 is a heat-stable microtubule-associated protein associated with process formation in Sf9 cells **102**, 739
Chen, M. S., Burgess, C. C., Vallee, R. B. and Wadsworth, S. C. Developmental stage- and tissue-specific expression of *shibire*, a *Drosophila* gene involved in endocytosis **103**, 619
Chen, Q. *See* Baker, L. P.
Chen, Q. *See* Peng, H. B.
Cherry, R. J. *See* Anderson, C. M.
Chester, K. A. *See* Macpherson, A. J. S.
Chevrier, V., Komesli, S., Schmit, A.-C., Vantard, M., Lambert, A.-M. and Job, D. A monoclonal antibody, raised against mammalian centrosomes and screened by recognition of plant microtubule organizing centers, identifies a pericentriolar component in different cell types **101**, 823
Chiavegato, A. *See* Giuriato, L.
Chien, S. *See* Sung, K.-L. P.
Chiplonkar, J. M., Vandre, D. D. and Robinson, J. M. Stimulus-dependent relocation of the microtubule organizing center in human polymorphonuclear leukocytes **102**, 723
Chow, T. Y.-K., Ash, J. J., Dignard, D. and Thomas, D. Y. Screening and identification of a gene, *PSE-1*, that affects protein secretion in *Saccharomyces cerevisiae* **101**, 709
Cibert, C. *See* Antony, C.
Cinti, S. *See* Cousin, B.
Citterio, S., Sgorbati, S., Levi, M., Colombo, B. M. and Sparvoli, E. PCNA and total nuclear protein content as markers of cell proliferation in pea tissue **102**, 71
Clark, P., Connolly, P. and Moores, G. R. Cell guidance by micropatterned adhesiveness in vitro **103**, 287
Clarke, M. S. F. and McNeil, P. L. Syringe loading introduces macromolecules into living mammalian cell cytosol **102**, 533
Clason, E. L. *See* Harris, P. J.
Cleary, A. L., Gunning, B. E. S., Wasteneys, G. O. and Hepler, P. K. Microtubule and F-actin dynamics at the division site in living *Tradescantia* stamen hair cells **103**, 977
Clemens, M. J., Trayner, I. and Menaya, J. The role of protein

kinase C isoenzymes in the regulation of cell proliferation and differentiation **103**, 881
Clover, J., Dodds, R. A. and Gowen, M. Integrin subunit expression by human osteoblasts and osteoclasts *in situ* and in culture **103**, 267
Cluett, E. B. and Brown, W. J. Adhesion of Golgi cisternae by proteinaceous interactions: intercisternal bridges as putative adhesive structures **103**, 773
Cohen-Solar, L. *See* Zylberberg, L.
Cole, D. G., Cande, W. Z., Baskin, R. J., Skoufias, D. A., Hogan, C. J. and Scholey, J. M. Isolation of sea urchin egg kinesin-related protein using peptide antibodies **101**, 291
Coleman, T. R. and Lazarides, E. Continuous growth of vimentin filaments in mouse fibroblasts **103**, 689
Colin, S. *See* Heusser, S.
Collard, J.-F., Senécal, J.-L. and Raymond, Y. Redistribution of nuclear lamin A is an early event associated with differentiation of human promyelocytic leukemia HL-60 cells **101**, 657
Collins, C. A. *See* Lin, S. X. H.
Colombo, B. M. *See* Citterio, S.
Compston, J. *See* Meikle, M. C.
Connolly, P. *See* Clark, P.
Conte, R. A. *See* Luke, S.
Cotanche, D. A. *See* Stone, J. S.
Cotterill, S. *See* Melov, S.
Couchman, J. R. *See* Woods, A.
Coukell, M. B., Cameron, A. M. and Adames, N. R. Involvement of intracellular calcium in protein secretion in *Dictyostelium discoideum* **103**, 371
Coulton, G. R., Rogers, B., Strutt, P., Skynner, M. J. and Watt, D. J. In situ localisation of single-stranded DNA breaks in nuclei of a subpopulation of cells within regenerating skeletal muscle of the dystrophic mdx mouse **102**, 653
Cousin, B., Cinti, S., Morroni, M., Raimbault, S., Ricquier, D., Pénicaud, L. and Casteilla, L. Occurrence of brown adipocytes in rat white adipose tissue: molecular and morphological characterization **103**, 931
Covelli, E. *See* Pavan, A.
Cown, N. J. *See* Takemura, R.
Cox, L. S. DNA replication in cell-free extracts from *Xenopus* eggs is prevented by disrupting nuclear envelope function **101**, 43
Creutz, C. E., Kambouris, N. G., Snyder, S. L., Hamman, H. C., Nelson, M. R., Liu, W. and Rock, P. Effects of the expression of mammalian annexins in yeast secretory mutants **103**, 1177
Critchley, D. R. *See* Gilmore, A. P.
Crocker, P. R. *See* Perry, V. H.
Croucher, P. I. *See* Meikle, M. C.
Curtenaz, S. and Peck, R. K. A monoclonal antibody study of protein distribution in the membrane skeleton of the ciliate *Pseudomicrothorax* **103**, 1117
Curtis, A. S. G., McGrath, M. and Gasmi, L. Localised application of an activating signal to a cell: experimental use of fibronectin bound to beads and the implications for mechanisms of adhesion **101**, 427
Curtis, C. *See* Warren, S. L.

Dahllof, B. *See* Lahtinen, U.
Dahlstrand, J., Zimmerman, L. B., McKay, R. D. G. and Lendahl, U. Characterization of the human nestin gene reveals a close evolutionary relationship to neurofilaments **103**, 589
Dalton, B. A. *See* Underwood, P. A.
Dauça, M. *See* Heusser, S.
Davies, T. G. E. *See* Wright, K. M.
Davis, R. G. *See* Vishwanatha, J. K.
de Graaf, A. *See* Stuurman, N.
de Jong, L. *See* Stuurman, N.
de la Torre, C. *See* Gonzalez-Fernandez, A.
de Loof, A. *See* Meulemans, W.
de Martino, C. *See* Natali, P. G.
de Souza, W. *See* Soares, M. J.
Del Buono, R. *See* Hayward, S. W.
Derventzi, A. *See* Thomopoulos, G. N.
Deshpande, N. *See* Hayward, S. W.
Devault, A. *See* Lorca, T.
Devlin, C. *See* Beresford, J. N.
Diaz, C. *See* Mege, R. M.
Dickson, G., Azad, A., Morris, G. E., Simon, H., Noursadeghi, M. and Walsh, F. S. Co-localization and molecular association of dystrophin with laminin at the surface of mouse and human myotubes **103**, 1223
Dickson, J. *See* Shiels, B.
Dignard, D. *See* Chow, T. Y.-K.
Dittrich, Ch. *See* Grunt, Th. W.
Dittrich, E. *See* Grunt, Th. W.
Dluzewski, A. R., Mitchell, G. H., Fryer, P. R., Griffiths, S., Wilson, R. J. M. and Gratzer, W. B. Origins of the parasitophorous vacuole membrane of the malaria parasite, *Plasmodium falciparum*, in human red blood cells **102**, 527
Dobberstein, B. *See* Zachgo, S.
Dodds, R. A. *See* Clover, J.
Dollin, A. E. *See* Campbell, M. T.
Donaldson, D. J. *See* Mahan, J. T.
Doonan, J. H. Cell division in *Aspergillus* **103**, 599
Dorée, M. *See* Lorca, T.
Dorée, M. *See* Faruki, S.
Dowrick, P. G. *See* Prescott, A. R.
Dowty, M. E. *See* Wolff, J. A.

Ecke, M. *See* Schweiger, A.
Edwall, C. *See* von Zglinicki, T.
El-Alfy, M. *See* Liu, D. F.
Eldar, T. *See* Weintraub, H.
Eleftheriou, E. P. and Palevitz, B. A. The effect of cytochalasin D on preprophase band organization in root tip cells of *Allium* **103**, 989
Ellen, T. D. *See* Arciniegas, E.
Ellis, I., Grey, A. M., Schor, A. M. and Schor, S. L. Antagonistic effects of TGF-β1 and MSF on fibroblast migration and hyaluronic acid synthesis: possible implications for dermal wound healing **102**, 447
Endow, S. A. *See* Hatsumi, M.
Endow, S. A. *See* Hatsumi, M.
Enrich, C. *See* Pujades, C.
Epstein, H., James, T. C. and Singh, P. B. Cloning and expression of *Drosophila* HP1 homologs from a mealybug *Planococcus citri* **101**, 463
Erxleben, C. *See* Plattner, H.
Eskelinen, S. *See* Kok, J. W.
Evans, G. S., Flint, N., Somers, A. S. and Potten, C. S. The development of a method for the preparation of rat intestinal epithelial cell primary cultures **101**, 219

Fairman, M. P. *See* Sleeman, A. M.
Faix, J., Gerisch, G. and Noegel, A. A. Overexpression of the csA cell adhesion molecule under its own cAMP-regulated promoter impairs morphogenesis in *Dictyostelium* **102**, 203
Fankhauser, C. *See* Marks, J.
Fankhauser, C. *See* Marks, J.
Faruki, S., Dorée, M. and Karsenti, E. cdc2 kinase-induced

destabilization of MAP2-coated microtubules in *Xenopus* egg extracts **101**, 69
Fateeva, V. I. *See* Brodsky, V. Y.
Fawcett, J. W., Fersht, N., Housden, L., Schachner, M. and Pesheva, P. Axonal growth on astrocytes is not inhibited by oligodendrocytes **103**, 571
Felix, M.-A. *See* Leiss, D.
Fersht, N. *See* Fawcett, J. W.
Fesquet, D. *See* Lorca, T.
Fields, A. P. *See* Hocevar, B. A.
Figiel, A. *See* Heusser, S.
Finch, R. A. *See* Schwarzacher, T.
Firth, J. A. *See* Schulze, C.
Fisher, C. J. *See* Midgley, C. A.
Fishkind, D. J. *See* Barton, N. R.
Fitzsimmons, C. *See* Gherardi, E.
Flint, N. *See* Evans, G. S.
Floore, A. *See* Stuurman, N.
Fok, A. K. *See* Allen, R. D.
Foote, L. J. *See* Kennel, S. J.
Forgacs, I. *See* Macpherson, A. J. S.
Forsberg, E. *See* Pujades, C.
Fowke, L. C. *See* Napier, R. M.
Fregien, N. *See* Carraway, K. L.
Friedman, S. J. *See* Bogner, P.
Fromont-Racine, M. *See* Saulnier-Michel, C.
Fryer, P. R. *See* Dluzewski, A. R.
Fujie, M. *See* Suzuki, T.
Fukamachi, H. Proliferation and differentiation of fetal rat intestinal epithelial cells in primary serum-free culture **103**, 511
Funayama, N. *See* Sato, N.
Furlong, S. T., Thibault, K. S. and Rogers, R. A. Fluorecent phospholipids preferentially accumulate in sub-tegumental cells of *Schistosoma mansoni* **103**, 823
Fürst, D. O., Vinkemeier, U. and Weber, K. Mammalian skeletal muscle C-protein: purification from bovine muscle, binding to titin and the characterization of a full-length human cDNA **102**, 769

Gaginskaya, E. *See* Solovei, I.
Garbisa, S. *See* Minafra, S.
Garcia, L. *See* Mege, R. M.
García-Herdugo, G. *See* Rodrigo, R. M.
Garrill, A., Lew, R. R. and Heath, I. B. Stretch-activated Ca^{2+} and Ca^{2+}-activated K^+ channels in the hyphal tip plasma membrane of the oomycete *Saprolegnia ferax* **101**, 721
Gasmi, L. *See* Curtis, A. S. G.
Gautier, T., Robert-Nicoud, M., Guilly, M.-N. and Hernandez-Verdun, D. Relocation of nucleolar proteins around chromosomes at mitosis: a study by confocal laser scanning microscope **102**, 729
Gavin, R. H. *See* Hoey, J. G.
Geiger, B. *See* Salomon, D.
Geiger, B., Salomon, D., Takeichi, M. and Hynes, R. O. A chimeric N-cadherin/β_1-integrin receptor which localizes to both cell-cell and cell-matrix adhesions **103**, 943
Gendler, S. J. *See* Parry, G.
Georgatos, S. D. *See* Kouklis, P. D.
Georgatos, S. D. *See* Brunkener, M.
Georgiou, G. N. *See* Anderson, C. M.
Geraud, G. *See* Mege, R. M.
Géraud, G. *See* Kubiak, J. Z.
Géraud, G. *See* Antony, C.
Géraud, M.-L. *See* Soyer-Gobillard, M.-O.
Geraudie, J. *See* Leibovici, M.
Gerisch, G. *See* Faix, J.
Gerisch, G. *See* Schweiger, A.
Gerke, V. *See* Thiel, C.
Gherardi, E. *See* Moorby, G. D.
Gherardi, E. *See* Kamalati, T.
Gherardi, E., Thomas, K., Le Cras, T. D., Fitzsimmons, C., Moorby, C. D. and Bowyer, D. E. Growth requirements and expression of LDL receptor and HMG-CoA reductase in Hep G2 hepatoblastoma cells cultured in a chemically defined medium **103**, 531
Ghosh, S., Paweletz, N. and Schroeter, D. Effects of okadaic acid on mitotic HeLa cells **103**, 117
Gilbert, C. *See* Berdichevsky, F.
Gilbert, H. J. *See* Soole, K. L.
Gilbert, R. T. *See* Poole, C. A.
Gilmore, A. P., Jackson, P., Waites, G. T. and Critchley, D. R. Further characterisation of the talin-binding site in the cytoskeletal protein vinculin **103**, 719
Gingell, D. and Owens, N. How do cells sense and respond to adhesive contacts? Diffusion-trapping of laterally mobile membrane proteins at maturing adhesions may initiate signals leading to local cytoskeletal assembly response and lamella formation **101**, 255
Giuriato, L., Scatena, M., Chiavegato, A., Tonello, M., Scannapieco, G., Pauletto, P. and Sartore, S. Non-muscle myosin isoforms and cell heterogeneity in developing rabbit vascular smooth muscle **101**, 233
Godfrey, V. *See* Kennel, S. J.
Gonzalez, C. *See* Bof, M.
Gonzalez-Fernandez, A., Sans, J., Aller, P. and de la Torre, C. The involvement of discrete genome regions in post-mitotic chromosome decodensation and in G_1 timing in *Allium cepa* L. meristematic cells **103**, 1047
Gordon, S. *See* Perry, V. H.
Goud, B. *See* Antony, C.
Goudou, D. *See* Mege, R. M.
Gowen, M. *See* Clover, J.
Grandin, N. and Charbonneau, M. The increase in intracellular pH associated with *Xenopus* egg activation is a Ca^{2+}-dependent wave **101**, 55
Grant, M. E. *See* Canfield, A. E.
Grant, M. E. *See* Kielty, C. M.
Grant, M. E. *See* Berry, L.
Grapa, E. *See* Truskey, G. A.
Gratzer, W. B. *See* Dluzewski, A. R.
Green, J. R. *See* Stafford, C. J.
Greenwood, J. *See* Abbott, N. J.
Grey, A. M. *See* Ellis, I.
Grierson, I. *See* Robey, H. L.
Griffin, E. F. and Harris, H. Total inhibition of involucrin synthesis by a novel two-step antisense procedure. Further examination of the relationship between differentiation and malignancy in hybrid cells **102**, 799
Griffiths, G. *See* Killisch, I.
Griffiths, G. *See* Zachgo, S.
Griffiths, S. *See* Dluzewski, A. R.
Grinnell, F. *See* Kim, L. T.
Grinnell, F. Wound repair, keratinocyte activation and integrin modulation **101**, 1
Groessner-Schreiber, B. and Tuan, R. S. Enhanced extracellular matrix production and mineralization by osteoblasts cultured on titanium surfaces *in vitro* **101**, 209
Gross, D. J. *See* Miller, D. D.
Gruenberg, J. *See* Parton, R. G.
Grunt, Th. W., Somay, C., Oeller, H., Dittrich, E. and Dittrich, Ch. Comparative analysis of the effects of dimethyl

sulfoxide and retinoic acid on the antigenic pattern of human ovarian adenocarcinoma cells **103**, 501
Guilly, M.-N. *See* Gautier, T.
Gull, K. *See* Woods, A.
Gunning, B. E. S. *See* Cleary, A. L.

Hall, J. *See* Soole, K. L.
Hall, P. A. *See* Hayward, S. W.
Hall, P. F. *See* Almahbobi, G.
Hallet, M. A. *See* Williams, D. S.
Hamman, H. C. *See* Creutz, C. E.
Hammel, I. *See* Weintraub, H.
Handel, S. E. *See* Rennison, M. E.
Harley, S. M. *See* Lin, H.-B.
Harold, R. L. *See* Heath, I. B.
Harris, H. *See* Griffin, E. F.
Harris, P. J. and Clason, E. L. Conditions for assembly of tubulin-based structures in unfertilized sea urchin eggs: spirals, monasters and cytasters **102**, 557
Harrison, F. L. and Wilson, T. J. G. 14 kDa β-galactoside binding lectin in myoblast and myotube cultures: localization by confocal microscopy **101**, 635
Harrison, R. A. P., Jacques, M. L., Minguez, M. L. P. and Miller, N. G. A. Behaviour of ejaculated spermatozoa from bull, boar and ram during thin-layer countercurrent partition in aqueous two-phase systems **102**, 123
Hartmann, D. J. *See* Zylberberg, L.
Hatsumi, M. and Endow, S. A. The *Drosophila* ncd microtubule motor protein is spindle-associated in meiotic and mitotic cells **103**, 1013
Hatsumi, M. and Endow, S. A. Mutants of the microtubule motor protein, nonclaret disjunctional, affect spindle structure and chromosome movement in meiosis and mitosis **101**, 547
Hawes, C. *See* Napier, R. M.
Hawes, C. *See* Satiat-Jeunemaitre, B.
Hayward, S. W., Del Buono, R., Deshpande, N. and Hall, P. A. A functional model of adult human prostate epithelium: the role of androgens and stroma in architectural organisation and the maintenance of differentiated secretory function **102**, 361
Hazlewood, G. P. *See* Soole, K. L.
Heasman, J. *See* Torpey, N. P.
Heath, I. B. *See* Garrill, A.
Heath, I. B. and Harold, R. L. Actin has multiple roles in the formation and architecture of zoospores of the oomycetes, *Saprolegnia ferax* and *Achlya bisexualis* **102**, 611
Helbing, D. *See* Temm-Grove, C.
Heldin, C.-H. *See* Tingström, A.
Hembry, R. M. *See* Meikle, M. C.
Henson, J. H., Nesbitt, D., Wright, B. D. and Scholey, J. M. Immunolocalization of kinesin in sea urchin coelomocytes: Association of kinesin with intracellular organelles **103**, 309
Hepler, P. K. *See* Cleary, A. L.
Hepler, P. K. *See* Miller, D. D.
Hepler, P. K. *See* Zhang, D. H.
Hernandez-Verdun, D. *See* Gautier, T.
Herrmann, H. *See* Hofmann, I.
Heslop-Harrison, J. S. *See* Schwarzacher, T.
Heslop-Harrison, J. S. *See* Leitch, A. R.
Heusser, S., Colin, S., Figiel, A., Huet, C., Keller, J. M., Pornet, P., Robine, S., Vandamme, J., Vandekerckhove, J. and Dauça, M. Amphibian intestinal villin: isolation and expression during embryonic and larval development **103**, 699
Heyderman, R. S. *See* Klein, N. J.
Hicks, J. L. and Williams, D. S. Distribution of the myosin I-like *ninaC* proteins in the *Drosophila* retina and ultrastructural analysis of mutant phenotypes **101**, 247
Hirokawa, N. *See* Takemura, R.
Hirst, B. H. *See* Soole, K. L.
Hisamoto, N. *See* Seino, H.
Hiscott, P. S. *See* Robey, H. L.
Hjelmeland, L. M. *See* Martins-Green, M.
Hocevar, B. A., Morrow, D. M., Tykocinski, M. L. and Fields, A. P. Protein kinase C isotypes in human erythroleukemia cell proliferation and differentiation **101**, 671
Hoekstra, D. *See* Kok, J. W.
Hoekstra, K. *See* Kok, J. W.
Hoey, J. G. and Gavin, R. H. Localization of actin in the *Tetrahymena* basal body-cage complex **103**, 629
Hofmann, I. and Herrmann, H. Interference of in vimentin assembly in vitro by synthetic peptides derived from the vimentin head domain **101**, 687
Hogan, C. J. *See* Cole, D. G.
Holder, N. *See* Kamalati, T.
Hollenbeck, P. J. *See* Swanson, J. A.
Holley, M. C., Kalinec, F. and Kachar, B. Structure of the cortical cytoskeleton in mammalian outer hair cells **102**, 569
Hollinshead, R. *See* Killisch, I.
Höner, B. *See* Temm-Grove, C.
Hopkinson, S. B. *See* Riddelle, K. S.
Housden, L. *See* Fawcett, J. W.
Huet, C. *See* Heusser, S.
Hughes, C. C. W. *See* Abbott, N. J.
Humbel, B. *See* Stuurman, N.
Humbert, C., Santisteban, M. S., Usson, Y. and Robert-Nicoud, M. Intranuclear co-location of newly replicated DNA and PCNA by simultaneous immunofluorescent labelling and confocal microscopy in MCF-7 cells **103**, 97
Humphries, M. J. *See* Szekanecz, Z.
Hunter, T. *See* Bailly, E.
Hynes, R. O. *See* Geiger, B.
Hynes, R. O. *See* Salomon, D.

Ingber, D. E. *See* Sims, J. R.
Ishihara, S. *See* Kim, L. T.
Iversen, P. L. *See* Kumble, K. D.
Izutsu, K. *See* Yoshida, T.

Jackson, P. *See* Gilmore, A. P.
Jacobson, B. S. *See* Stolz, D. B.
Jacobson, B. S. *See* Stolz, D. B.
Jacobson, B. S. *See* Lu, M. L.
Jacques, M. L. *See* Harrison, R. A. P.
James, T. C. *See* Epstein, H.
Jantti, J. *See* Kuismanen, E.
Jarvis, L. *See* TenBroek, E.
Jenkins, G. and Okumus, A. Indiscriminate synapsis in achiasmate *Allium fistulosum* L. (Liliaceae) **103**, 415
Jepson, M. A. *See* Soole, K. L.
Jeun, G. and Locke, M. The relative positions of condensed chromosomes are maintained between divisions in the epidermis of *Calpodes ethlius* **103**, 839
Jiang, Y. Q. and Oblinger, M. M. Differential regulation of β_{III} and other tubulin genes during peripheral and central neuron development **103**, 643
Jiao, S. *See* Wolff, J. A.
Jindal, H. K. *See* Vishwanatha, J. K.
Job, D. *See* Chevrier, V.
Jockusch, B. M. *See* Temm-Grove, C.
Johansson, S. *See* Pujades, C.
Johnson, M. H. *See* Vincent, C.
Joliot, A. *See* Perez, F.
Jones, G.E. *See* Murphy, S.J.

Jones, J. C. R. *See* Riddelle, K. S.
Jordan, M. A., Thrower, D. and Wilson, L. Effects of vinblastine, podophyllotoxin and nocodazole on mitotic spindles: implications for the role of microtubule dynamics in mitosis **102**, 401
Josso, A. *See* Stuurman, N.

Kachar, B. *See* Holley, M. C.
Kagami, O. and Kamiya, R. Translocation and rotation of microtubules caused by multiple species of *Chlamydomonas* inner-arm dynein **103**, 653
Kalinec, F. *See* Holley, M. C.
Kallajoki, M., Weber, K. and Osborn, M. Ability to organize microtubules in taxol-treated mitotic PtK_2 cells goes with the SPN antigen and not with the centrosome **102**, 91
Kamalati, T., Thirunavukarasu, B., Wallace, A., Holder, N., Brooks, R., Nakamura, T., Stoker, M., Gherardi, E. and Buluwela, L. Down-regulation of scatter factor in MRC 5 fibroblasts by epithelial-derived cells: a model for scatter factor modulation **101**, 323
Kambouris, N. G. *See* Creutz, C. E.
Kamiya, R. *See* Kagami, O.
Kanai, Y. *See* Takemura, R.
Kanous, K. S. *See* Lindemann, C. B.
Kaplan, P. *See* Naz, R. K.
Karp, S. *See* Sims, J. R.
Karsenti, E. *See* Faruki, S.
Karsenti, E. *See* Leiss, D.
Katsuta, J. and Shibaoka, H. Inhibition by kinase inhibitors of the development and the disappearance of the preprophase band of microtubules in tobacco BY-2 cells **103**, 397
Kaur, P. and Carter, W. G. Integrin expression and differentiation in transformed human epidermal cells is regulated by fibroblasts **103**, 755
Kawano, S. *See* Suzuki, T.
Kedinger, M. *See* Simo, P.
Keller, J. M. *See* Heusser, S.
Kennel, S. J., Godfrey, V., Ch'ang, L. Y., Lankford, T. K., Foote, L. J. and Makkinje, A. The β_4 subunit of the integrin family is displayed on a restricted subset of endothelium in mice **101**, 145
Kenney, S. *See* Bogner, P.
Kielty, C. M., Whittaker, S. P., Grant, M. E. and Shuttleworth, C. A. Attachment of human vascular smooth muscle cells to intact microfibrillar assemblies of type VI collagen and fibrillin **103**, 445
Killisch, I., Steinlein, P., Romisch, K., Hollinshead, R., Beug, H. and Griffiths, G. Characterization of early and late endocytic compartments of the transferrin cycle: transferrin receptor antibody blocks erythroid differentiation by trapping the receptor in the early endosome **103**, 211
Kim, L. T., Ishihara, S., Lee, C.-C., Akiyama, S. K., Yamada, K. M. and Grinnell, F. Altered glycosylation and cell surface expression of β_1 integrin receptors during keratinocyte activation **103**, 743
King, K. L., Stewart, M., Roberts, T. M. and Seavy, M. Structure and macromolecular assembly of two isoforms of major sperm protein (MSP) from the amoeboid sperm of the nematode, *Ascaris suum* **101**, 847
Kinnaird, J. *See* Shiels, B.
Klein, G. *See* Bof, M.
Klein, N. J., Shennan, G. I., Heyderman, R. S. and Levin, M. Alteration in glycosaminoglycan metabolism and surface charge on human umbilical vein endothelial cells induced by cytokines, endotoxin and neutrophils **102**, 821
Knoll, G. *See* Plattner, H.
Kok, J. W., Hoekstra, K., Eskelinen, S. and Hoekstra, D. Recylcing pathways of glucosylceramide in BHK cells: distinct involvement of early and late endosomes **103**, 1139
Komesli, S. *See* Chevrier, V.
Komori, N., Usukura, J. and Matsumoto, H. Drosocrystallin, a major 52 kDa glycoprotein of the *Drosophila melanogaster* corneal lens: purification, biochemical characterization, and subcellular localization **102**, 191
Kosik, K. S. *See* Cheley, S.
Kouklis, P. D., Traub, P. and Georgatos, S. D. Involvement of the consensus sequence motif at coil 2b in the assembly and stability of vimentin filaments **102**, 31
Krek, W., Marks, J., Schmitz, N., Nigg, E. A. and Simanis, V. Vertebrate $p34^{cdc2}$ phosphorylation site mutants: effects upon cell cycle progression in the fission yeast *Schizosaccharomyces pombe* **102**, 43
Kubiak, J. Z., Weber, M., Geraud, G. and Maro, B. Cell cycle modification during the transitions betwen meiotic M-phases in mouse oocytes **102**, 457
Kuhlman, P. *See* Sung, K.-L. P.
Kuismanen, E., Jantti, J., Makiranta, V. and Sariola, M. Effect of caffeine on intracellular transport of Semliki Forest virus membrane glycoproteins **102**, 505
Kumble, K. D., Iversen, P. L. and Vishwanatha, J. K. The role of primer recognition proteins in DNA replication: inhibition cellular proliferation by antisense oligodeoxyribonucleotides **101**, 35
Kuroiwa, H. *See* Suzuki, T.
Kuroiwa, H. *See* Kuroiwa, T.
Kuroiwa, T. *See* Suzuki, T.
Kuroiwa, T., Makoto, F. and Kuroiwa, H. Studies on the behavior of mitochondrial DNA: synthesis of mitochondrial DNA occurs actively in a specific region just above the quiescent center in the root meristem of *Pelargonium zonale* **101**, 483
Kwan, A. P. L. *See* Stephens, M.

Labbe, J.-C. *See* Lorca, T.
Lahtinen, U., Dahllof, B. and Saraste, J. Characterization of a 58 kDa *cis*-Golgi protein in pancreatic exocrine cells **103**, 321
Lambert, A.-M. *See* Chevrier, V.
Landolfi, A. S. *See* Warren, S. L.
Lane, D. *See* Midgley, C. A.
Lankford, T. K. *See* Kennel, S. J.
Larsen, P. M. *See* Wolniak, S. M.
Larsson, O. and Wejde, J. Dolichol delays G_1-arrest for one cell cycle in human fibroblasts subjected to depletion of serum or mevalonate **103**, 1065
Laskey, R. A. *See* Sleeman, A. M.
Lawrence, B. P. and Brown, W. J. Autophagic vacuoles rapidly fuse with pre-existing lysosomes in cultured hepatocytes **102**, 515
Lazarides, E. *See* Coleman, T. R.
Le Cras, T. D. *See* Gherardi, E.
Leblond, C. P. *See* Liu, D. F.
Leboy, P. S. *See* Beresford, J. N.
Lee, C.-C. *See* Kim, L. T.
Lee, G. and Rook, S. L. Expression of tau protein in non-neuronal cells: microtubule binding and stabilization **102**, 227
Lee, K. A. W. Dimeric transcription factor families: it takes two to tango but who decides on partners and the venue? **103**, 9
Lehner, C. R. The *pebble* gene is required for cytokinesis in *Drosophila* **103**, 1021
Leibovici, M., Monod, G., Geraudie, J., Bravo, R. and Mechali, M. Nuclear distribution of PCNA during embryonic

development in *Xenopus laevis*: a reinvestigation of early cell cycles **102**, 63
Leick, V. Chemotactic properties, cellular binding and uptake of peptides and peptide derivatives: Studies with *Tetrahymena thermophila* **103**, 565
Leigh, R. A. *See* Wright, K. M.
Leiss, D., Felix, M.-A. and Karsenti, E. Association of cyclin-bound p34^{cdc2} with subcellular structures in *Xenopus* eggs **102**, 285
Leitch, A. R., Mosgoller, W., Shi, M. and Heslop-Harrison, J. S. Different patterns of rDNA organization at interphase in nuclei of wheat and rye **101**, 751
Lemmon, B. E. *See* Brown, R. C.
Lendahl, U. *See* Dahlstrand, J.
Leno, G. H. *See* Sleeman, A. M.
Leonard, K. R. *See* Newman, R.
Leopold, A. C. *See* Wayne, R.
Lepidi, H., Benoliel, A.-M., Mege, J.-L., Bongrand, P. and Capo, C. Double localization of F-actin in chemoattractant-stimulated polymorphonuclear leucocytes **103**, 145
Leslie, R. J. Chromosomes attain a metaphase position on half-spindles in the absence of an opposing spindle pole **103**, 125
Levi, M. *See* Citterio, S.
Levin, M. *See* Klein, N. J.
Lew, R. R. *See* Garrill, A.
Lewis, M. *See* Napier, R. M.
Leyshon-Sorland, K. *See* Chain, B. M.
Li, J. *See* Parry, G.
Liebman, P. A. *See* Matesic, D. F.
Lilien, J. *See* Bauer, G. E.
Limberi-Thomopoulos, S. *See* Thomopoulos, G. N.
Lin, H.-B., Harley, S. M., Butler, J. M. and Beevers, L. Multiplicity of clathrin light-chain-like polypeptides from developing pea (*Pisum sativum* L.) cotyledons **103**, 1127
Lin, J. J.-C. *See* Lourim, D.
Lin, S. X. H. and Collins, C. A. Immunolocalization of cytoplasmic dynein to lysosomes in cultured cell **101**, 125
Linck, R. W. *See* Steffen, W.
Lind, B. *See* von Zglinicki, T.
Lindemann, C. B., Orlando, A. and Kanous, K. S. The flagellar beat of rat sperm is organized by the intereaction of two functionally distinct populations of dynein bridges with a stable central axonemal partition **102**, 249
Liu, D. F., El-Alfy, M. and Leblond, C. P. Visualization of DNA within mitochondria by osmium-ammine staining of mouse duodenal crypt cells **101**, 785
Liu, W. *See* Creutz, C. E.
Locke, A. *See* Swanson, J. A.
Locke, M. *See* Jeun, G.
Lohka, M. J. *See* Vigers, G. P. A.
Lollo, B. A. *See* Sung, K.-L. P.
Lorca, T., Labbe, J.-C., Devault, A., Fesquet, D., Strausfeld, U., Nilsson, J., Nygren, P.-A., Uhlen, M., Cavadore, J.-C. and Dorée, M. Cyclin A-cdc2 kinase does not trigger but delays cyclin degradation in interphase extracts of amphibian eggs **102**, 55
Louis, C. *See* TenBroek, E.
Lourim, D. and Lin, J. J.-C. Expression of wild-type and nuclear localization deficient human lamin A in chick myogenic cells **103**, 863
Lu, M. L., McCarron, R. J. and Jacobson, B. S. Initiation of HeLa cell adhesion to collagen is dependent upon collagen receptor upregulation, segregation to the basal plasma membrane, clustering and binding to the cytoskeleton **101**, 873
Lucania, G. *See* Pavan, A.
Lucocq, J. Mimicking mitotic Golgi division using okadaic acid **103**, 875
Ludtke, J. J. *See* Wolff, J. A.
Luke, S., Verma, R. S., Conte, R. A. and Mathews, T. Molecular characterization of the secondary constriction region (qh) of human chromosome 9 with pericentric inversion **103**, 919
Luparello, C. *See* Minafra, S.

Macgregor, H. *See* Solovei, I.
Mackie, E. J. and Tucker, R. P. Tenascin in bone morphogenesis: expression by osteoblasts and cell type-specific expression of splice variants **103**, 765
Macpherson, A. J. S., Mayall, T. P., Chester, K. A., Abbasi, A., Forgacs, I., Malcolm, A. D. B. and Peters, T. J. Mitochondrial gene expression in the human gastrointestinal tract **102**, 307
Mahan, J. T. and Donaldson, D. J. Divalent cations and extracellular matrix receptor function during newt epidermal cell migration **101**, 173
Makiranta, V. *See* Kuismanen, E.
Makkinje, A. *See* Kennel, S. J.
Makoto, F. *See* Kuroiwa, T.
Malcolm, A. D. B. *See* Macpherson, A. J. S.
Maldonado, F. *See* Sung, K.-L. P.
Manders, E. M. M., Stap, J., Brakenhoff, G. J., van Driel, R. and Aten, J. A. Dynamics of three-dimensional replication patterns during the S-phase, analysed by double labelling of DNA and confocal microscopy **103**, 857
Mardon, H. J. and Sebastio, G. Regulation of alternative splicing in the IICS region of human fibronectin pre-mRNA encoding cell binding sites CS1 and Cs5 **103**, 423
Marek, D. *See* Sanchez, J. A.
Marks, J. *See* Krek, W.
Marks, J., Fankhauser, C., Reymond, A. and Simanis, V. Cytoskeletal and DNA structure abnormalities result from bypass of requirement for the *cdc10* start gene in the fission yeast *Schizosaccharomyces pombe* **101**, 517
Marks, J., Fankhauser, C. and Simanis, V. Genetic interactions in the control of septation in *Schizosaccharomyces pombe* **101**, 801
Maro, B. *See* Kubiak, J. Z.
Maro, B. *See* Antony, C.
Marsh, M. *See* Watts, C.
Martin, J.-B. *See* Bof, M.
Martins-Green, M., Aotaki-Keen, A., Hjelmeland, L. M. and Bissell, M. J. The 9E3 protein: immunolocalization *in vivo* and evidence for multiple forms in culture **101**, 701
Matesic, D. F., Philip, N. J., Murray, J. M. and Liebman, P. A. Tubulin in retinal rod outer segments **103**, 157
Mathews, T. *See* Luke, S.
Matsumoto, H. *See* Komori, N.
Mayall, T. P. *See* Macpherson, A. J. S.
Mayau, V. *See* Antony, C.
Mayne, R. *See* Swasdison, S.
McCarron, R. J. *See* Lu, M. L.
McClure, J. *See* Berry, L.
McGrath, M. *See* Curtis, A. S. G.
McKay, R. D. G. *See* Dahlstrand, J.
McKellar, S. *See* Shiels, B.
McNeil, P. L. *See* Clarke, M. S. F.
McNulty, A. K. and Saunders, M. J. Purification and immunological detection of pea nuclear intermediate filaments: evidence for plant nuclear lamins **103**, 407
Mechali, M. *See* Leibovici, M.
Mege, J.-L. *See* Lepidi, H.

Mege, R. M., Goudou, D., Diaz, C., Nicolet, M., Garcia, L., Geraud, G. and Rieger, F. N-cadherin and N-CAM in myoblast fusion: compared localisation and effect of blockade by peptides and antibodies **103**, 897
Meikle, M. C., Bord, S., Hembry, R. M., Compston, J., Croucher, P. I. and Reynolds, J. J. Human osteoblasts in culture synthesize collagenase and other matrix metalloproteinases in response to osteotropic hormones and cytokines **103**, 1093
Meikrantz, W. and Schlegel, R. A. M phase-promoting factor activation **101**, 475
Melan, M. A. and Sluder, G. Redistribution and differential extraction of soluble proteins in permeabilized cultured cells: implications for immunofluorescence microscopy **101**, 731
Melov, S., Vaughan, H. and Cotterill, S. Molecular characterisation of the gene for the 180 kDa subunit of the DNA polymerase-primase of *Drosophila melanogaster* **102**, 847
Melrose, R. *See* Shiels, B.
Menaya, J. *See* Clemens, M. J.
Meulemans, W. and de Loof, A. Transport of the cationic fluorochrome rhodamine 123 in an insect's Malpighian tubule: indications of a reabsorptive function of the secondary cell type **101**, 349
Meyerson, G., Pfenninger, K. H. and Pahlman, S. A complex consisting of $pp60^{c\text{-}src}$/$pp60^{c\text{-}srcN}$ and a 38 kDA protein is highly enriched in growth cones from differentiated SH-SY5Y neuroblastoma cells **103**, 233
Midgley, C. A., Fisher, C. J., Bártek, J., Vojtěšek, B., Lane, D. and Barnes, D. M. Analysis of p53 expression in human tumours: an antibody raised against human p53 expressed in *Escherichia coli* **101**, 183
Mihalache, O. *See* Schweiger, A.
Miled, L. B. *See* Shiels, B.
Miller, D. D., Callaham, D. A., Gross, D. J. and Hepler, P. K. Free Ca^{2+} gradient in growing pollen tubes of *Lilium* **101**, 7
Miller, N. G. A. *See* Harrison, R. A. P.
Mills, A. D. *See* Sleeman, A. M.
Minafra, S., Luparello, C., Pucci-Minafra, I., Sobel, M. E. and Garbisa, S. Adhesion of 8701-BC breast cancer cells to type V collagen and 67 kDa receptor **102**, 323
Minguez, M. L. P. *See* Harrison, R. A. P.
Mitchell, G. H. *See* Dluzewski, A. R.
Mitchison, T. J. *See* Sawin, K. W.
Mitsui, Y. *See* Takeda, T.
Mogensen, M. M. *See* Tucker, J. B.
Monod, G. *See* Leibovici, M.
Moorby, C. D. *See* Gherardi, E.
Moorby, G. D., Gherardi, E., Riddell, D. and Bowyer, D. E. Porcine smooth muscle cell-conditioned medium stimulates LDL receptor activity in Hep G2 cells **103**, 541
Moore, S. E. *See* Morgan, J. E.
Moores, G. R. *See* Clark, P.
Mooseker, M. S. *See* Peterson, M. D.
Moreno, F. J. *See* Rodrigo, R. M.
Morgan, J. E., Moore, S. E., Walsh, F. S. and Partridge, T. A. Formation of skeletal muscle in vivo from the mouse C2 cell line **102**, 779
Mori, Y. *See* Takezawa, T.
Morris, G. E. *See* Dickson, G.
Morrison, G. H. *See* Chandra, S.
Morrison, I. E. G. *See* Anderson, C. M.
Morroni, M. *See* Cousin, B.
Morrow, D. M. *See* Hocevar, B. A.
Morrow, J. S. *See* Warren, S. L.
Mortara, R. A. *See* Schenkman, S.
Mosgoller, W. *See* Leitch, A. R.
Moskalewski, S. *See* Thyberg, J.
Mould, A. P. *See* Aplin, J. D.
Murata, T. and Wada, M. Cell cycle-specific disruption of the preprophase band of microtubules in fern protonemata: effects of displacement of the endoplasm by centrifugation **101**, 93
Murphy, S.J., Watt, D.J. and Jones, G.E. An evaluation of cell separation techniques in a model mixed cell population **102**, 789
Murray, J. M. *See* Matesic, D. F.

Nagafuchi, A. *See* Sato, N.
Nakamura, H. *See* Suzuki, T.
Nakamura, T. *See* Kamalati, T.
Nanninga, N. *See* Oud, J. L.
Napier, R. M., Fowke, L. C., Hawes, C., Lewis, M. and Pelham, H. R. B. Immunological evidence that plants use both HDEL and KDEL for targeting proteins to the endoplasmic reticulum **102**, 261
Natali, P. G., Nicotra, M. R., Bigotti, A. and de Martino, C. Localization of the α_6 and β_4 integrin subunits in normal human non-lymphoid tissues **103**, 1243
Naz, R. K., Ahmad, K. and Kaplan, P. Expression and function of *ras* proto-oncogene proteins in human sperm cells **102**, 487
Nechaeva, N. V. *See* Brodsky, V. Y.
Nelson, D. L. *See* Shih, S.-J.
Nelson, M. R. *See* Creutz, C. E.
Nelson, W. J. *See* Wollner, D. A.
Neophytou, E. P. *See* Thomopoulos, G. N.
Nesbitt, D. *See* Henson, J. H.
Newman, R., Butcher, G. W., Bullard, B. and Leonard, K. R. A method for determining the periodicity of a troponin component in isolated insect flight muscle thin filaments by gold/Fab labelling **101**, 503
Nicklas, R. B. and Arana, P. Evolution and the meaning of metaphase **102**, 681
Nicolet, M. *See* Mege, R. M.
Nicotra, M. R. *See* Natali, P. G.
Nigg, E. A. *See* Peter, M.
Nigg, E. A. *See* Krek, W.
Niggli, V. *See* Yuruker, B.
Nilsson, J. *See* Lorca, T.
Nishimoto, T. *See* Seino, H.
Noegel, A. A. *See* Faix, J.
Nordberg, M. *See* von Zglinicki, T.
Noursadeghi, M. *See* Dickson, G.
Novikova, T. E. *See* Brodsky, V. Y.
Nuckolls, G. H., Romer, L. H. and Burridge, K. Microinjection of antibodies against talin inhibits the spreading and migration of fibroblasts **102**, 753
Nygren, P.-A. *See* Lorca, T.

Oblinger, M. M. *See* Jiang, Y. Q.
Oeller, H. *See* Grunt, Th. W.
Ojakian, G. K. and Schwimmer, R. Antimicrotubule drugs inhibit the polarized insertion of an intracellular glycoprotein pool into the apical membrane of Madin-Darby canine kidney (MDCK) cells **103**, 677
Okabe, S. *See* Takemura, R.
Okumus, A. *See* Jenkins, G.
Oparka, K. J. *See* Wright, K. M.
Oppenheimer, D. I. *See* Volkman, L. E.
Orlando, A. *See* Lindemann, C. B.
Osborn, M. *See* Thiel, C.
Osborn, M. *See* Kallajoki, M.
Ostlund, E. *See* von Zglinicki, T.

Oud, J. L. and Nanninga, N. Cell shape, chromosome orientation and the position of the plane of division in *Vicia faba* root cortex cells **103**, 847
Owen, M. E. *See* Beresford, J. N.
Owens, N. *See* Gingell, D.

Pahlman, S. *See* Meyerson, G.
Palazzo, R. E. *See* Rieder, C. L.
Palevitz, B. A. *See* Eleftheriou, E. P.
Parker, J. S. *See* Baluška, F.
Parry, G., Li, J., Stubbs, J., Bissell, M. J., Schmidhauser, C., Spicer, A. P. and Gendler, S. J. Studies of Muc-1 mucin expression and polarity in the mouse mammary gland demonstrate developmental regulation of Muc-1 glycosylation and establish the hormonal basis for mRNA expression **101**, 191
Parton, R. G., Schrotz, P., Bucci, C. and Gruenberg, J. Plasticity of early endosomes **103**, 335
Partridge, T. A. *See* Morgan, J. E.
Pascale, M. C. *See* Pavan, A.
Paskevich, S. Bakalis *See* Cheley, S.
Patel-King, R. *See* Salomon, D.
Paton, C. C. *See* Tucker, J. B.
Pauletto, P. *See* Giuriato, L.
Pavan, A., Coveili, E., Pascale, M. C., Lucania, G., Bonatti, S., Pinto da Silva, P. and Torrisi, M. R. Dynamics of transmembrane proteins during Sindbis virus budding **102**, 149
Paweletz, N. *See* Ghosh, S.
Peck, R. K. *See* Curtenaz, S.
Pelham, H. R. B. *See* Napier, R. M.
Peng, H. B. *See* Baker, L. P.
Peng, H. B. and Chen, Q. Induction of dystrophin localization in cultured *Xenopus* muscle cells by latex beads **103**, 551
Penicaud, L. *See* Cousin, B.
Pentchev, P. G. *See* Weintraub, H.
Perez, F., Joliot, A., Bloch-Gallego, E., Zahraoui, A., Triller, A. and Prochiantz, A. Antennapedia homeobox as a signal for the cellular internalization and nuclear addressing of a small exogenous peptide **102**, 717
Perry, V. H., Crocker, P. R. and Gordon, S. The blood-brain barrier regulates the expression of macrophage sialic acid-binding receptor on microglia **101**, 201
Pesheva, P. *See* Fawcett, J. W.
Peter, M., Chavrier, P., Nigg, E. A. and Zerial, M. Isoprenylation of rab proteins on structurally distinct cysteine motifs **102**, 857
Peters, T. J. *See* Macpherson, A. J. S.
Peterson, M. D. and Mooseker, M. S. Characterization of the enterocyte-like brush border cytoskeleton of the $C2_{BBe}$ clones of the human intestinal cell line, Caco-2 **102**, 581
Pfenninger, K. H. *See* Meyerson, G.
Philip, N. J. *See* Matesic, D. F.
Pictet, R. *See* Saulnier-Michel, C.
Pines, J. *See* Bailly, E.
Pinto da Silva, P. *See* Pavan, A.
Plattner, H., Knoll, G. and Erxleben, C. The mechanics of biological membrane fusion. Merger of aspects from electron microscopy and patch-clamp analysis **103**, 613
Pollard, T. D. *See* Yonemura, S.
Poole, C. A., Ayad, S. and Gilbert, R. T. Chondrons from articular cartilage. V. Immunohistochemical evaluation of type VI collagen organisation in isolated chondrons by light, confocal and electron microscopy **103**, 1101
Pornet, P. *See* Heusser, S.
Potten, C. S. *See* Evans, G. S.
Pratt, M. M. *See* Barton, N. R.
Prescott, A. R., Dowrick, P. G. and Warn, R. M. Stable and slow-turning-over microtubules characterize the processes of motile epithelial cells treated with scatter factor **102**, 103
Prior, G. *See* Stephens, R. E.
Prochiantz, A. *See* Perez, F.
Pryer, N. K., Walker, R. A., Skeen, V. P., Bourns, B. D., Soboeiro, M. F. and Salmon, E. D. Brain microtubule-associated proteins modulate microtubule dynamic instability in vitro: real-time observations using video microscopy **103**, 965
Pucci-Minafra, I. *See* Minafra, S.
Pujades, C., Forsberg, E., Enrich, C. and Johansson, S. Changes in cell surface expression of fibronectin and fibronectin receptor during liver regeneration **102**, 815

Quinn, J. M. W. and Athanasou, N. A. Tumour infiltrating macrophages are capable of bone resorption **101**, 681

Racoosin, E. L. and Swanson, J. A. M-CSF-induced macropinocytosis increases solute endocytosis but not receptor-mediated endocytosis in mouse macrophages **102**, 867
Raimbault, S. *See* Cousin, B.
Ramachandrula, A., Tiku, K. and Tiku, M.L. Tripeptide RGD-dependent adhesion of articular chondrocytes to synovial fibroblasts **101**, 859
Rattner, J. B. and Wang, T. Kinetochore formation and behaviour following premature chromosome condensation **103**, 1039
Raymond, Y. *See* Collard, J.-F.
Redfern, C. P. F. and Todd, C. Retinoic acid receptor expression in human skin keratinocytes and dermal fibroblasts in vitro **102**, 113
Reese, T. S. *See* Terasaki, M.
Reichert, W. M. *See* Truskey, G. A.
Rendón, M. C. *See* Rodrigo, R. M.
Rennison, M. E., Handel, S. E., Wilde, C. J. and Burgoyne, R. D. Investigation of the role of microtubules in protein secretion from lactating mouse mammary epithelial cells **102**, 239
Repetto, G. *See* Wolff, J. A.
Revest, P. A. *See* Abbott, N. J.
Reymond, A. *See* Marks, J.
Reynolds, J. J. *See* Meikle, M. C.
Richardson, G. P. *See* Tucker, J. B.
Ricquier, D. *See* Cousin, B.
Riddell, D. *See* Moorby, G. D.
Riddelle, K. S., Hopkinson, S. B. and Jones, J. C. R. Hemidesmosomes in the epithelial cell line 804G: their fate during wound closure, mitosis and drug induced reorganization of the cytoskeleton **103**, 475
Rieder, C. L. and Palazzo, R. E. Colcemid and the mitotic cycle **102**, 387
Rieger, F. *See* Mege, R. M.
Ringertz, N. R. *See* von Zglinicki, T.
Riparbelli, M. G. and Callaini, G. Distribution of a nuclear envelope antigen during the syncytial mitoses of the early *Drosophila* embryo as revealed by laser scanning confocal microscopy **102**, 299
Risley, M. S., Tan, I. P., Roy, C. and Saez, J. C. Cell-, age- and stage-dependent distribution of connexin43 gap junctions in testes **103**, 81
Rius, C. and Aller, P. Vimentin expression as a late event in the *in vitro* differentiation of human promonocytic cells **101**, 395
Robert-Nicoud, M. *See* Gautier, T.
Robert-Nicoud, M. *See* Humbert, C.
Roberts, T. M. *See* King, K. L.
Robey, H. L., Hiscott, P. S. and Grierson, I. Cytokeratins and retinal epithelial cell behaviour **102**, 329

Robine, S. *See* Heusser, S.
Robinson, J. M. *See* Chiplonkar, J. M.
Rock, P. *See* Creutz, C. E.
Rodrigo, R. M., Rendón, M. C., Torreblanca, J., García-Herdugo, G. and Moreno, F. J. Characterization and immunolocalization of RNA polymerase I transcription factor UBF with anti-NOR serum in protozoa, higher plant and vertebrate cells **103**, 1053
Rogers, B. *See* Coulton, G. R.
Rogers, R. A. *See* Furlong, S. T.
Romer, L. H. *See* Nuckolls, G. H.
Romisch, K. *See* Killisch, I.
Rook, S. L. *See* Lee, G.
Rooney, P. *See* Berry, L.
Rousset, J.-P. *See* Angrand, P.-O.
Roy, C. *See* Risley, M. S.
Rubin, K. *See* Tingstrom, A.
Russell, D. G., Xu, S. and Chakraborty, P. Intracellular trafficking and the parasitophorus vacuole of *Leishmania mexicana*-infected macrophages **103**, 1193
Russell, I. J. *See* Tucker, J. B.

Saez, J. C. *See* Risley, M. S.
Sainz, E. *See* Bogner, P.
Sakai, A. *See* Suzuki, T.
Salmon, E. D. *See* Pryer, N. K.
Salomon, D. *See* Geiger, B.
Salomon, D., Ayalon, O., Patel-King, R., Hynes, R. O. and Geiger, B. Extrajunctional distribution of N-cadherin in cultured human endothelial cells **102**, 7
Sanchez, J. A., Marek, D. and Wangh, L. J. The efficiency and timing of plasmid DNA replication in *Xenopus* eggs: correlations to the extent of prior chromatin assembly **103**, 907
Sans, J. *See* Gonzalez-Fernandez, A.
Santa Maria, A. *See* Antony, C.
Santisteban, M. S. *See* Humbert, C.
Saraste, J. *See* Lahtinen, U.
Sariola, M. *See* Kuismanen, E.
Sartore, S. *See* Giuriato, L.
Satiat-Jeunemaitre, B. and Hawes, C. Redistribution of a Golgi glycoprotein in plant cells treated with Brefeldin A **103**, 1153
Sato, N., Funayama, N., Nagafuchi, A., Yonemura, S., Tsukita, S. and Tsukita, S. A gene family consisting of erzrin, radixin and moesin: its specific localization at actin filament/plasma membrane association sites **103**, 131
Satre, M. *See* Bof, M.
Sattar, A. *See* Aplin, J. D.
Saulnier-Michel, C., Fromont-Racine, M. and Pictet, R. Co-expression of insulin and somatostatin genes in pancreatic endocrine cells selected for their high level of insulin gene transcription **101**, 795
Saunders, M. J. *See* McNulty, A. K.
Sawin, K. W., Mitchison, T. J. and Wordeman, L. G. Evidence for kinesin-related proteins in the mitotic apparatus using peptide antibodies **101**, 303
Scannapieco, G. *See* Giuriato, L.
Scatena, M. *See* Giuriato, L.
Schachner, M. *See* Fawcett, J. W.
Schenkman, S. and Mortara, R. A. HeLa cells extend and internalize pseudopodia during active invasion by *Trypanosoma cruzi* trypomastigotes **101**, 895
Scherbarth, A. *See* Traub, P.
Schevchenko, N. A. *See* Brodsky, V. Y.
Schlegel, R. A. *See* Meikrantz, W.
Schmidhauser, C. *See* Parry, G.
Schmit, A.-C. *See* Chevrier, V.
Schmitz, N. *See* Krek, W.
Scholey, J. M. *See* Henson, J. H.
Scholey, J. M. *See* Cole, D. G.
Schor, A. M. *See* Ellis, I.
Schor, A. M. *See* Arciniegas, E.
Schor, A.M. *See* Canfield, A. E.
Schor, S. L. *See* Canfield, A. E.
Schor, S. L. *See* Ellis, I.
Schroeder, C. C. *See* Allen, R. D.
Schroeter, D. *See* Ghosh, S.
Schrotz, P. *See* Parton, R. G.
Schulze, C. and Firth, J. A. The interendothelial junction in myocardial capillaries: Evidence for the existence of regularly spaced, cleft-spanning structures **101**, 647
Schwarzacher, T., Heslop-Harrison, J. S., Anamthawat-Jónsson, K., Finch, R. A. and Bennett, M. D. Parental genome separation in reconstructions of somatic and premeiotic metaphases of *Hordeum vulgare* × *H. bulbosum* **101**, 13
Schweiger, A., Mihalache, O., Ecke, M. and Gerisch, G. Stage-specific tyrosine phosphorylation of actin in *Dictyostelium discoideum* cells **102**, 601
Schwimmer, R. *See* Ojakian, G. K.
Seagull, R. W. A quantitative electron microscopic study of changes in microtubule arrays and wall microfibril orientation during *in vitro* cotton fiber development **101**, 561
Seavy, M. *See* King, K. L.
Sebastio, G. *See* Mardon, H. J.
Segall, J. E. Behavioral responses of streamer F mutants of *Dictyostelium discoideum*: effects of cyclic GMP on cell motility **101**, 589
Seino, H., Hisamoto, N., Uzawa, S., Sekiguchi, T. and Nishimoto, T. DNA-binding activity of RCC1 protein is not essential for coupling of mitosis with DNA replication **102**, 393
Sekiguchi, T. *See* Seino, H.
Senécal, J.-L. *See* Collard, J.-F.
Sgorbati, S. *See* Citterio, S.
Shaw, M. K. and Tilney, L. G. How individual cells develop from a syncytium: merogony in *Theileria parva* (Apicomplexa) **101**, 109
Shearer, M. *See* Berdichevsky, F.
Shennan, G. I. *See* Klein, N. J.
Shi, M. *See* Leitch, A. R.
Shibaoka, H. *See* Katsuta, J.
Shiels, B., Kinnaird, J., McKellar, S., Dickson, J., Miled, L. B., Melrose, R., Brown, D. and Tait, A. Disruption of synchrony between parasite growth and host cell division is a determinant of differentiation to the merozoite in *Theileria annulata* **101**, 99
Shih, S.-J. and Nelson, D. L. Proteolytic processing of secretory proteins in *Paramecium*: immunological and biochemical characterization of the precursors of trichocyst matrix proteins **103**, 349
Shimazaki, S. *See* Takeda, T.
Shoeman, R. L. *See* Traub, P.
Shuttleworth, C. A. *See* Kielty, C. M.
Simanis, V. *See* Marks, J.
Simanis, V. *See* Marks, J.
Simanis, V. *See* Krek, W.
Simo, P., Simon-Assmann, P., Arnold, C. and Kedinger, M. Mesenchyme-mediated effect of dexamethasone on laminin in cocultures of embryonic gut epithelial cells and mesenchyme-derived cells **101**, 161
Simon, H. *See* Dickson, G.
Simon-Assmann, P. *See* Simo, P.
Sims, J. R., Karp, S. and Ingber, D. E. Altering the cellular

mechanical force balance results in integrated changes in cell, cytoskeletal and nuclear shape **103**, 1215
Singh, P. B. *See* Epstein, H.
Siva-Jothy, M. T. *See* Chain, B. M.
Skeen, V. P. *See* Pryer, N. K.
Skehant, P. *See* Bogner, P.
Skoufias, D. A. *See* Cole, D. G.
Skynner, M. J. *See* Coulton, G. R.
Slautterback, D. B. *See* Wolff, J. A.
Sleeman, A. M., Leno, G. H., Mills, A. D., Fairman, M. P. and Laskey, R. A. Patterns of DNA replication in *Drosophila* polytene nuclei replicating in *Xenopus* egg and oocyte extracts **101**, 509
Sluder, G. *See* Melan, M. A.
Snyder, S. L. *See* Creutz, C. E.
Soares, M. J., Souto-Padron, T. and de Souza, W. Identification of a large pre-lysosomal compartment in the pathogenic protozoon *Trypanosoma cruzi* **102**, 157
Sobel, M. E. *See* Minafra, S.
Soboeiro, M. F. *See* Pryer, N. K.
Solovei, I., Gaginskaya, E., Allen, T. and Macgregor, H. A novel structure associated with a lampbrush chromosome in the chicken, *Gallus domesticus* **101**, 759
Somay, C. *See* Grunt, Th. W.
Somers, A. S. *See* Evans, G. S.
Soole, K. L., Hall, J., Jepson, M. A., Hazlewood, G. P., Gilbert, H. J. and Hirst, B. H. Constitutive secretion of a bacterial enzyme by polarized epithelial cells **102**, 495
Souto-Padron, T. *See* Soares, M. J.
Soyer-Gobillard, M.-O. and Geraud, M.-L. Nucleolus behaviour during the cell cycle of a primitive dinoflagellate eukaryote, *Prorocentrum micans* Ehr., seen by light microscopy and electron microscopy **102**, 475
Sparvoli, E. *See* Citterio, S.
Spicer, A. P. *See* Parry, G.
Stafford, C. J., Green, J. R. and Callow, J. A. Organisation of glycoproteins into plasma membrane domains on *Fucus serratus* eggs **101**, 437
Stap, J. *See* Manders, E. M. M.
Staves, M. P. *See* Wayne, R.
Steben, L. S. *See* Trevor, K. T.
Steele, J. G. *See* Underwood, P. A.
Steele, S. H. *See* Wright, K. M.
Steffen, W. and Linck, R. W. Evidence for a non-tubulin spindle matrix and for spindle components immunologically related to tektin filaments **101**, 809
Steinlein, P. *See* Killisch, I.
Stephens, M., Kwan, A. P. L., Bayliss, M. T. and Archer, C. W. Human articular surface chondrocytes initiate alkaline phosphatase and type X collagen synthesis in suspension culture **103**, 1111
Stephens, R. E. Tubulin in sea urchin embryonic cilia: post-translational modifications during regeneration **101**, 837
Stephens, R. E. and Prior, G. Dynein from serotonin-activated cilia and flagella: extraction characteristics and distinct sites for cAMP-dependent protein phosphorylation **103**, 999
Stevenson, G. V. W. *See* Anderson, C. M.
Stewart, M. *See* King, K. L.
Stoker, M. *See* Kamalati, T.
Stolz, D. B. and Jacobson, B. S. Examination of transcellular membrane protein polarity of bovine aortic endothelial cells in vitro using the cationic colloidal silica microbead membrane isolation procedure **103**, 39
Stolz, D. B., Bannish, G. and Jacobson, B. S. The role of the cytoskeleton and intercellular junctions in the transcellular membrane protein polarity of bovine aortic endothelial cells in vitro **103**, 53
Stone, J. S. and Cotanche, D. A. Synchronization of hair cell regeneration in the chick cochlea following noise damage **102**, 671
Strausfeld, U. *See* Lorca, T.
Strike, P. *See* Underwood, P. A.
Strutt, P. *See* Coulton, G. R.
Stubbs, J. *See* Parry, G.
Stuurman, N., de Graaf, A., Floore, A., Josso, A., Humbel, B., de Jong, L. and van Driel, R. A monoclonal antibody recognizing nuclear matrix-associated nuclear bodies **101**, 773
Sumner, A. T. Inhibitors of topoisomerases do not block the passage of human lymphocyte chromosomes through mitosis **103**, 105
Sung, K.-L. P., Kuhlman, P., Maldonado, F., Lollo, B. A., Chien, S. and Brian, A. A. Force contribution of the LFA-1/CAM-1 complex to T cell adhesion **103**, 259
Suzuki, T., Kawano, S., Sakai, A., Fujie, M., Kuroiwa, H., Nakamura, H. and Kuroiwa, T. Preferential mitochondrial and plastid DNA synthesis before multiple cell divisions in *Nicotiana tabacum* **103**, 831
Swanson, J. A. *See* Racoosin, E. L.
Swanson, J. A. *See* Cannon, G. J.
Swanson, J. A., Locke, A., Ansel, P. and Hollenbeck, P. J. Radial movement of lysosomes along microtubules in permeabilized macrophages **103**, 201
Swasdison, S. and Mayne, R. Formation of highly organized skeletal muscle fibers *in vitro*: comparison with muscle development *in vivo* **102**, 643
Swinscoe, J. C. and Carlson, E. C. Capillary endothelial cells secrete a heparin-binding mitogen for pericytes **103**, 453
Szekanecz, Z., Humphries, M. J. and Ager, A. Lymphoctye adhesion to high endothelium is mediated by two β_1 integrin receptors for fibronectin, $\alpha_4\beta_1$ and $\alpha_5\beta_1$ **101**, 885

Taichman, L. B. *See* Carroll, J. M.
Tait, A. *See* Shiels, B.
Takanari, H. *See* Yoshida, T.
Takeda, T., Yamashita, Y., Shimazaki, S. and Mitsui, Y. Histamine decreases the permeability of an endothelial cell monolayer by stimulating cyclic AMP production through the H_2-receptor **101**, 745
Takeichi, M. *See* Geiger, B.
Takemura, R., Okabe, S., Umeyama, T., Kanai, Y., Cown, N. J. and Hirokawa, N. Increased microtubule stability and alpha tubulin acetylation in cells transfected with microtubule-associated proteins MAP1B, MAP2 or tau **103**, 953
Takezawa, T., Yamazaki, M., Mori, Y., Yonaha, T. and Yoshizato, K. Morphological and immuno-cytochemical characterization of a hetero-spheroid composed of fibroblasts and hepatocytes **101**, 495
Talhouk, S. N. *See* Volkman, L. E.
Tan, I. P. *See* Risley, M. S.
Taylor-Papadimitriou, J. *See* Berdichevsky, F.
Temm-Grove, C., Helbing, D., Wiegand, C., Höner, B. and Jockusch, B. M. The upright position of brush border-type microvilli depends on myosin filaments **101**, 599
TenBroek, E., Arneson, M., Jarvis, L. and Louis, C. The distribution of the fiber cell intrinsic membrane proteins MP20 and connexin46 in the bovine lens **103**, 245
Terasaki, M. and Reese, T. S. Characterization of endoplasmic reticulum by co-localization of BiP and dicarbocyanine dyes **101**, 315
Thibault, K. S. *See* Furlong, S. T.
Thiel, C., Osborn, M. and Gerke, V. The tight association of the

tyrosine kinase substrate annexin II with the submembranous cytoskeleton depends on intact p11- and Ca^{2+}- binding sites **103**, 733
Thirunavukarasu, B. *See* Kamalati, T.
Thomas, D. Y. *See* Chow, T. Y.-K.
Thomas, K. *See* Gherardi, E.
Thomas, L. A. and Yamada, K. M. Contact stimulation of cell migration **103**, 1211
Thomopoulos, G. N., Neophytou, E. P., Alexiou, M., Vadolas, A., Limberi-Thomopoulos, S. and Derventzi, A. Structural and histochemical studies of Golgi complex differentiation in salivary gland cells during *Drosophila* development **102**, 169
Thrower, D. *See* Jordan, M. A.
Thyberg, J. and Moskalewski, S. Disorganization of the Golgi complex and the cytoplasmic microtubule system in CHO cells exposed to okadaic acid **103**, 1167
Tiku, K. *See* Ramachandrula, A.
Tiku, M.L. *See* Ramachandrula, A.
Tilney, L. G. *See* Shaw, M. K.
Tingström, A., Heldin, C.-H. and Rubin, K. Regulation of fibroblast-mediated collagen gel contraction by platelet-derived growth factor, interleukin-1α and transforming growth factor-β1 **102**, 315
Todd, C. *See* Redfern, C. P. F.
Tonello, M. *See* Giuriato, L.
Torpey, N. P., Heasman, J. and Wylie, C. C. Distinct distribution of vimentin and cytokeratin in *Xenopus* oocytes and early embryos **101**, 151
Torreblanca, J. *See* Rodrigo, R. M.
Torrisi, M. R. *See* Pavan, A.
Traub, P. *See* Kouklis, P. D.
Traub, P., Scherbarth, A., Wiegers, W. and Shoeman, R. L. Salt-stable interaction of the amino-terminal head region of vimentin with the α-helical rod domain of cytoplasmic intermediate filament proteins and its relevance to protofilament structure and filament formation and stability **101**, 363
Trayner, I. *See* Clemens, M. J.
Trevor, K. T. and Steben, L. S. Distrubution of desmosomal proteins in F9 embryonla carcinoma cells and epithelial cell derivatives **103**, 69
Triller, A. *See* Perez, F.
Trimbur, G. M. and Walsh, C. J. BN46/51, a new nuclear protein, binds to the basal body region in *Naegleria gruberi* flagellates **103**, 167
Truskey, G. A., Burmeister, J. S., Grapa, E. and Reichert, W. M. Total internal reflection fluorescence microscopy (TIRFM). II. Topographical mapping of relative cell/substratum separation distances **103**, 491
Tsukita, S. *See* Sato, N.
Tsukita, S. *See* Sato, N.
Tuan, R. S. *See* Groessner-Schreiber, B.
Tucker, J. B., Paton, C. C., Richardson, G. P., Mogensen, M. M. and Russell, I. J. A cell surface-associated centrosomal layer of microtubule-organizing material in the inner pillar cell of the mouse cochlea **102**, 215
Tucker, R. P. *See* Mackie, E. J.
Tykocinski, M. L. *See* Hocevar, B. A.

Uhlen, M. *See* Lorca, T.
Umeyama, T. *See* Takemura, R.
Underhill, C. CD44: The hyaluronan receptor **103**, 293
Underwood, P. A., Dalton, B. A., Steele, J. G., Bennett, F. A. and Strike, P. Anti-fibronectin antibodies that modify heparin binding and cell adhesion: evidence for a new cell binding site in the heparin binding region **102**, 833
Usson, Y. *See* Humbert, C.
Usukura, J. *See* Komori, N.
Uzawa, S. *See* Seino, H.
Uzawa, S. and Yanagida, M. Visualization of nucleolar and centromeric DNA in fission yeast by fluorescence in situ hybridization **101**, 267

Vadolas, A. *See* Thomopoulos, G. N.
Vallee, R. B. *See* Chen, M. S.
van den Ende, H. *See* Zachleder, V.
Van Diujn, B. and Van Haastert, P. J. M. Independent control of locomotion and orientation during *Dictyostelium discoideum* chemotaxis **102**, 763
van Driel, R. *See* Manders, E. M. M.
van Driel, R. *See* Stuurman, N.
Van Haastert, P. J. M. *See* Van Diujn, B.
van Holde, K. *See* Zlatanova, J.
Vandamme, J. *See* Heusser, S.
Vandekerckhove, J. *See* Heusser, S.
Vandré, D. D. *See* Chiplonkar, J. M.
Vandré, D. D. and Wills, V. L. Inhibition of mitosis by okadaic acid: possible involvement of a protein phosphatase 2A in the transition from metaphase to anaphase **101**, 79
Vantard, M. *See* Chevrier, V.
Vaughan, H. *See* Melov, S.
Verma, R. S. *See* Luke, S.
Vigers, G. P. A. and Lohka, M. J. Regulation of nuclear envelope precursor functions during cell division **102**, 273
Vincent, C., Cheek, T. R. and Johnson, M. H. Cell cycle progression of parthenogenetically activated mouse oocytes to interphase is dependent on the level of internal calcium **103**, 389
Vinkemeier, U. *See* Furst, D. O.
Vishwanatha, J. K. *See* Kumble, K. D.
Vishwanatha, J. K., Jindal, H. K. and Davis, R. G. The role of primer recognition proteins in DNA replication: association with nuclear matrix in HeLa cells **101**, 25
Vojtěšěk, B. *See* Midgley, C. A.
Volkman, L. E., Talhouk, S. N., Oppenheimer, D. I. and Charlton, C. A. Nuclear F-actin: a functional component of baculovirus-infected lepidopteran cells **103**, 15
von Zglinicki, T., Edwall, C., Ostlund, E., Lind, B., Nordberg, M., Ringertz, N. R. and Wroblewski, J. Very low cadmium concentrations stimulate DNA synthesis and cell growth **103**, 1073

Wada, M. *See* Murata, T.
Wadsworth, P. *See* Zhang, D. H.
Wadsworth, S. C. *See* Chen, M. S.
Waites, G. T. *See* Gilmore, A. P.
Walker, R. A. *See* Pryer, N. K.
Wallace, A. *See* Kamalati, T.
Walsh, C. J. *See* Trimbur, G. M.
Walsh, F. S. *See* Morgan, J. E.
Walsh, F. S. *See* Dickson, G.
Wang, T. *See* Rattner, J. B.
Wangh, L. J. *See* Sanchez, J. A.
Warn, R. M. *See* Prescott, A. R.
Warren, R. H. *See* Barton, N. R.
Warren, S. L., Landolfi, A. S., Curtis, C. and Morrow, J. S. Cytostellin: a novel, highly conserved protein that undergoes continuous redistribution during the cell cycle **103**, 381
Wasteneys, G. O. *See* Cleary, A. L.
Watt, D. J. *See* Coulton, G. R.
Watt, D.J. *See* Murphy, S.J.
Watts, C. and Marsh, M. Endocytosis: what goes in and how? **103**, 1

Wayne, R., Staves, M. P. and Leopold, A. C. The contribution of the extracellular matrix to gravisensing in characean cells **101**, 611
Weber, K. *See* Furst, D. O.
Weber, K. *See* Kallajoki, M.
Weber, M. *See* Kubiak, J. Z.
Weintraub, H., Abramovici, A., Amichai, D., Eldar, T., Ben-Dor, L., Pentchev, P. G. and Hammel, I. Morphometric studies of pancreatic acinar granule formation in NCTR-Balb/c mice **102**, 141
Weiss, M. C. *See* Angrand, P.-O.
Wejde, J. *See* Larsson, O.
Whittaker, S. P. *See* Kielty, C. M.
Wiegand, C. *See* Temm-Grove, C.
Wiegers, W. *See* Traub, P.
Wilde, C. J. *See* Rennison, M. E.
Williams, D. S. *See* Hicks, J. L.
Williams, D. S., Hallet, M. A. and Arikawa, K. Association of myosin with the connecting cilium of rod photo-receptors **103**, 183
Williams, L. J. *See* Almahbobi, G.
Williams, P. *See* Wolff, J. A.
Wills, V. L. *See* Vandré, D. D.
Wilson, L. *See* Jordan, M. A.
Wilson, R. J. M. *See* Dluzewski, A. R.
Wilson, T. J. G. *See* Harrison, F. L.
Wolff, J. A., Dowty, M. E., Jiao, S., Repetto, G., Berg, R. K., Ludtke, J. J., Williams, P. and Slautterback, D. B. Expression of naked plasmids by cultured myotubes and entry of plasmids into T tubules and caveolae of mammalian skeletal muscle **103**, 1249
Wollner, D. A. and Nelson, W. J. Establishing and maintaining epithelial cell polarity: roles of protein sorting, delivery and retention **102**, 185
Wolniak, S. M. and Larsen, P. M. Changes in the metaphase transit times and the pattern of sister chromatid separation in stamen hair cells of *Tradescantia* after treatment with protein phosphatase inhibitors **102**, 691
Woods, A. and Couchman, J. R. Protein kinase C involvement in focal adhesion formation **101**, 277
Woods, A., Baines, A. J. and Gull, K. A high molecular mass phosphoprotein defined by a novel monoclonal antibody is closely associated with the intermicrotubule cross bridges in the *Trypanosoma brucei* cytoskeleton **103**, 665
Wordeman, L. G. *See* Sawin, K. W.
Wren, F. E. *See* Canfield, A. E.
Wright, B. D. *See* Henson, J. H.
Wright, K. M., Davies, T. G. E., Steele, S. H., Leigh, R. A. and Oparka, K. J. Development of a probenecid-sensitive Lucifer Yellow transport system in vacuolating oat aleurone protoplasts **102**, 133
Wroblewski, J. *See* von Zglinicki, T.
Wylie, C. C. *See* Torpey, N. P.

Xu, S. *See* Russell, D. G.

Yamada, K. M. *See* Kim, L. T.
Yamada, K. M. *See* Thomas, L. A.
Yamashita, Y. *See* Takeda, T.
Yamazaki, M. *See* Takezawa, T.
Yanagida, M. *See* Uzawa, S.
Yonaha, T. *See* Takezawa, T.
Yonemura, S. *See* Sato, N.
Yonemura, S. and Pollard, T. D. The localization of myosin I and myosin I in *Acanthamoeba* by fluorescence microscopy **102**, 629
Yoshida, T., Takanari, H. and Izutsu, K. Distribution of cytoplasmic and axonemal dyneins in rat tissues **101**, 579
Yoshizato, K. *See* Takezawa, T.
Yoshizato, K. *See* Asaga, H.
Yurovitsky, Y. G. *See* Brodsky, V. Y.
Yürüker, B. and Niggli, V. α-Actinin and vinculin in human neutrophils: reorganization during adhesion and relation to the actin network **101**, 403

Zachgo, S., Dobberstein, B. and Griffiths, G. A block in degradation of MHC class II-associated invariant chain correlates with a reduction in transport from endosome carrier vesicles to the prelysosome compartment **103**, 811
Zachleder, V. and van den Ende, H. Cell cycle events in the green alga *Chlamydomonas eugametos* and their control by environmental factors **102**, 469
Zahraoui, A. *See* Perez, F.
Zerial, M. *See* Peter, M.
Zhang, D. H., Wadsworth, P. and Hepler, P. K. Modulation of anaphase spindle microtubule structure in stamen hair cells of *Tradescantia* by calcium and related agents **102**, 79
Zimmerman, L. B. *See* Dahlstrand, J.
Zlatanova, J. and van Holde, K. Histone H1 and transcription: still an enigma? **103**, 889
Zylberberg, L., Bonaventure, J., Cohen-Solar, L., Hartmann, D. J. and Bereiter-Hahn, J. Organization and characterization of fibrillar collagens in fish scales in situ and in vitro **103**, 273

Subject Index

mAb microdistribution
β_4 integrin on endothelium: KENNEL, GODFREY, CH'ANG, LANKFORD, FOOTE AND MAKKINJE **101**, 145.
Acanthamoeba
localization of myosin I and II in *Acanthamoeba*: YONEMURA AND POLLARD **102**, 629.
Acetylated tubulin
expression of tau protein in 3T3 cells: LEE AND ROOK **102**, 227.
Acetylation
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.
Acetylcholine receptor clusters
dystrophin localization induced by beads: PENG AND CHEN **103**, 551.
ACh receptor
ACh receptor clustering induced by polymer beads: BAKER, CHEN AND PENG **102**, 543.
Achiasmate
indiscriminate synapsis in *Allium fistulosum*: JENKINS AND OKUMUS **103**, 415.
Acidification
endocytosis mutants in *Dictyostelium*: BOF, BRENOT, GONZALEZ, KLEIN, MARTIN AND SATRE **101**, 139.
AcPase
Golgi complex modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.
Actin
α-actin and vinculin in neutrophils: YURUKER AND NIGGLI **101**, 403.
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
Actin filament
the ezrin-radixin-moesin family: SATO, FUNAYAMA, NAGAFUCHI, YONEMURA, TSUKITA AND TSUKITA **103**, 131.
Actin phosphorylation
tyrosine phosophorylation of actin: SCHWEIGER, MIHALACHE, ECKE AND GERISCH **102**, 601.
α-SM actin
endothelial cell differentiation by TGF-β: ARCINIEGAS, ELLEN AND SCHOR **103**, 521.
α-Actinin
α-actin and vinculin in neutrophils: YURUKER AND NIGGLI **101**, 403.
Activation
activating cell adhesion: CURTIS, MCGRATH AND GASMI **101**, 427.
Actomyosin interactions
cell and nuclear shape control: SIMS, KARP AND INGBER **103**, 1215.
Adherens junctions
cadherin β_1 integrin chimera: GEIGER, SALOMON, TAKEICHI AND HYNES **103**, 943.
extrajunctional distribution of endothelial N-cadherin: SALOMON, AYALON, PATEL-KING, HYNES AND GEIGER **102**, 7.
Adhesion
cadherin mediated adhesion in pancreatic islet cells: BAUER, BALSAMO AND LILIEN **103**, 1235.
cell response to adhesive contacts: GINGELL AND OWENS **101**, 255.
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
hemidesmosomes in epithelial cells: RIDDELLE, HOPKINSON AND JONES **103**, 475.
Adiantum
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
Adipocytes
atypical localization of brown adipocytes: COUSIN, CINTI, MORRONI, RAIMBAULT, RICQUIER, PENICAUD AND CASTEILLA **103**, 931.
Adipogenesis
rat adipogenesis and osteogenesis: BERESFORD, BENNETT, DEVLIN, LEBOY AND OWEN **102**, 341.
Adrenal cells
lipid droplets and intermediate filaments: ALMAHBOBI, WILLIAMS AND HALL **101**, 383.
Agglutinin
cell to collagen interactions via glycoprotein: ASAGA AND YOSHIZATO **101**, 625.
Aleurone protoplasts
LYCH transport in oat aleurone protoplasts: WRIGHT, DAVIES, STEELE, LEIGH AND OPARKA **102**, 133.
Allium
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.
Allium fistulosum
indiscriminate synapsis in *Allium fistulosum*: JENKINS AND OKUMUS **103**, 415.
Alphoid DNA sequence
characterization of qh region of chromosome 9: LUKE, VERMA, CONTE AND MATHEWS **103**, 919.
Alternative splicing
alternative splicing of IIICS: MARDON AND SEBASTIO **103**, 423.
Amino terminus
protein domains in vimentin IF assembly: TRAUB, SCHERBARTH, WIEGERS AND SHOEMAN **101**, 363.
Amoeba
endocytosis mutants in *Dictyostelium*: BOF, BRENOT, GONZALEZ, KLEIN, MARTIN AND SATRE **101**, 139.
Amoeboid motility
structure and assembly of *Ascaris MSP*: KING, STEWART, ROBERTS AND SEAVY **101**, 847.
Amphibians
amphibian intestinal villin: HEUSSER, COLIN, FIGIEL, HUET, KELLER, PORNET, ROBINE, VANDAMME, VANDEKERCKHOVE AND DAUCA **103**, 699.
Analysis of periodicity
troponin-H on insect thin filaments: NEWMAN, BUTCHER, BULLARD AND LEONARD **101**, 503.
Anaphase
fluorescence in situ hybridization in yeast: UZAWA AND YANAGIDA **101**, 267.
Anchorage device
hemidesmosomes in epithelial cells: RIDDELLE, HOPKINSON AND JONES **103**, 475.

Angiotensin-converting enzyme
endothelial cell membrane protein polarity: STOLZ AND JACOBSON **103**, 39.
endothelial membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.
Animal cells
pericentriolar component: CHEVRIER, KOMESLI, SCHMIT, VANTARD, LAMBERT AND JOB **101**, 823.
Annexin
annexin II/pII in the submembranous cytoskeleton: THIEL, OSBORN AND GERKE **103**, 733.
Antennapedia homeobox
internalization and nuclear addressing of a polypeptide: PEREZ, JOLIOT, BLOCH-GALLEGO, ZAHRAOUI, TRILLER AND PROCHIANTZ **102**, 717.
Anti-bromodeoxyuridine immunofluorescence
preferential DNA synthesis in *N. tabacum*: SUZUKI, KAWANO, SAKAI, FUJIE, KUROIWA, NAKAMURA AND KUROIWA **103**, 831.
Anti-IFA
a structural role for a conserved IF sequence: KOUKLIS, TRAUB AND GEORGATOS **102**, 31.
Anti-myosin
brush border-type microvilli depend on myosin II: TEMM-GROVE, HELBING, WIEGAND, HONER AND JOCKUSCH **101**, 599.
Anti-NOR serum
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
Antisense RNA
antisense inhibition of involucrin synthesis: GRIFFIN AND HARRIS **102**, 799.
Apical membrane domains
endothelial cell membrane protein polarity: STOLZ AND JACOBSON **103**, 39.
Aqueous two-phase systems
partition of spermatozoa: HARRISON, JACQUES, MINGUEZ AND MILLER **102**, 123.
Arg-Gly-Asp (RGD) sequence
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
Articular cartilage
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Aspergillus
cell division in *Aspergillus*: DOONAN **103**, 599.
Assembly
control of nuclear envelope assembly: VIGERS AND LOHKA **102**, 273.
Assembly dynamics
vimentin filaments in mouse fibroblasts: COLEMAN AND LAZARIDES **103**, 689.
Asters
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
Astrocyte
axons, astrocytes and oligodendrocytes: FAWCETT, FERSHT, HOUSDEN, SCHACHNER AND PESHEVA **103**, 571.
ATP
ATP and protein synthesis rhythms: BRODSKY, BOIKOV, NECHAEVA, YUROVITSKY, NOVIKOVA, FATEEVA AND SCHEVCHENKO **103**, 363.
Auditory receptors
synchronized hair cell regeneration: STONE AND COTANCHE **102**, 671.
Auto-antibodies
dynamics of nucleolar proteins: confocal microscopic study: GAUTIER, ROBERT-NICOUD, GUILLY AND HERNANDEZ-VERDUN **102**, 729.
Autographa californica
AcMNPV-induced nuclear F-actin: VOLKMAN, TALHOUK, OPPENHEIMER AND CHARLTON **103**, 15.
Autophagy
autophagic vacuoles rapidly fuse with lysosomes: LAWRENCE AND BROWN **102**, 515.
Auxin-binding protein
ER targeting in plants: NAPIER, FOWKE, HAWES, LEWIS AND PELHAM **102**, 261.
Avena sativa
LYCH transport in oat aleurone protoplasts: WRIGHT, DAVIES, STEELE, LEIGH AND OPARKA **102**, 133.
Avidin-biotin
early endosome plasticity: PARTON, SCHROTZ, BUCCI AND GRUENBERG **103**, 335.
Axon growth
axons, astrocytes and oligodendrocytes: FAWCETT, FERSHT, HOUSDEN, SCHACHNER AND PESHEVA **103**, 571.
Axon regeneration
axons, astrocytes and oligodendrocytes: FAWCETT, FERSHT, HOUSDEN, SCHACHNER AND PESHEVA **103**, 571.
Axonemal dyneins
dyneins in rat tissues: YOSHIDA, TAKANARI AND IZUTSU **101**, 579.
Axons
β_{III}-tubulin in neuron development: JIANG AND OBLINGER **103**, 643.

b21P
dimeric transcription factor families: LEE **103**, 9.
Baculovirus
AcMNPV-induced nuclear F-actin: VOLKMAN, TALHOUK, OPPENHEIMER AND CHARLTON **103**, 15.
PKA-induced processes in Sf9 cells: CHELEY, KOSIK, PASKEVICH AND BAYLEY **102**, 739.
***Bandeiraea simplicifolia* lectin**
wool cortical cell differentiation: CAMPBELL, DOLLIN AND ADELSON **102**, 353.
Basal body
BN46/51, a new nucleolar protein: TRIMBUR AND WALSH **103**, 167.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
Basement membrane
dexamethasone effect on laminin in co-cultures: SIMO, SIMON-ASSMANN, ARNOLD AND KEDINGER **101**, 161.
integrin expression in the small intestine: BEAULIEU **102**, 427.
Basement membrane formation
skeletal muscle development *in vitro*: SWASDISON AND MAYNE **102**, 643.
Basolateral membrane domains
endothelial cell membrane protein polarity: STOLZ AND JACOBSON **103**, 39.
BeWo
variant BeWo carcinoma cells: APLIN, SATTAR AND MOULD **103**, 435.
BHK
cell guidance by patterned adhesion: CLARK, CONNOLLY AND MOORES **103**, 287.

Binding assays
filensin-membrane interactions: BRUNKENER AND GEORGATOS **103**, 709.
BiP
staining of ER by $DiOC_6(3)$: TERASAKI AND REESE **101**, 315.
Blood-brain barrier
modulation of microglia phenotype: PERRY, CROCKER AND GORDON **101**, 201.
Bone resorption
tumour macrophages resorb bone: QUINN AND ATHANASOU **101**, 681.
Brain
rat brain endothelial culture: ABBOTT, HUGHES, REVEST AND GREENWOOD **103**, 23.
Breast cancer
p53 expression in human tumours: MIDGLEY, FISHER, BARTEK, VOJTESEK, LANE AND BARNES **101**, 183.
Breast carcinoma
type V collagen and 67 kDa receptor: MINAFRA, LUPARELLO, PUCCI-MINAFRA, SOBEL AND GARBISA **102**, 323.
Brefeldin A
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.
Bromodeoxyuridine
intranuclear co-location of replicated DNA and PCNA: HUMBERT, SANTISTEBAN, USSON AND ROBERT-NICOUD **103**, 97.
Brush border
amphibian intestinal villin: HEUSSER, COLIN, FIGIEL, HUET, KELLER, PORNET, ROBINE, VANDAMME, VANDEKERCKHOVE AND DAUCA **103**, 699.
brush border cytoskeleton of Caco-2 clones: PETERSON AND MOOSEKER **102**, 581.
Bryostatin
PKC isotypes in human erythroleukemia cells: HOCEVAR, MORROW, TYKOCINSKI AND FIELDS **101**, 671.

c-*ras* proto-oncogene
and sperm cell function: NAZ, AHMAD AND KAPLAN **102**, 487.
C-protein
sequence of human muscle C-protein: FURST, VINKEMEIER AND WEBER **102**, 769.
c-src
$pp60^{c\text{-}src}$/pp38 complex in growth cones: MEYERSON, PFENNINGER AND PAHLMAN **103**, 233.
C2 cells
glucose-6-phosphate isomerase: MORGAN, MOORE, WALSH AND PARTRIDGE **102**, 779.
CA 125 antigen
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.
Ca^{2+}-activated ion channel
ion channels in a tip-growing system: GARRILL, LEW AND HEATH **101**, 721.
Ca^{2+} binding
annexin II/pII in the submembranous cytoskeleton: THIEL, OSBORN AND GERKE **103**, 733.
corneal lens protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
Ca^{2+} depletion
Ca^{2+} and protein secretion in *Dictyostelium*: COUKELL, CAMERON AND ADAMES **103**, 371.

^{44}Ca-stable isotope
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Caco-2
brush border cytoskeleton of Caco-2 clones: PETERSON AND MOOSEKER **102**, 581.
protein secretion by epithelial cells: SOOLE, HALL, JEPSON, HAZLEWOOD, GILBERT AND HIRST **102**, 495.
Cadherins
cadherin β_1 integrin chimera: GEIGER, SALOMON, TAKEICHI AND HYNES **103**, 943.
cadherin mediated adhesion in pancreatic islet cells: BAUER, BALSAMO AND LILIEN **103**, 1235.
extrajunctional distribution of endothelial N-cadherin: SALOMON, AYALON, PATEL-KING, HYNES AND GEIGER **102**, 7.
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.
Cadmium
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.
Caffeine
effect of caffeine on SFV membrane proteins: KUISMANEN, JANTTI, MAKIRANTA AND SARIOLA **102**, 505.
Calcification
osteoblast culture on titanium surfaces: GROESSNER-SCHREIBER AND TUAN **101**, 209.
Calcium
calcium modulates spindle microtubules: ZHANG, WADSWORTH AND HEPLER **102**, 79.
cell cycle of activated oocytes: VINCENT, CHEEK AND JOHNSON **103**, 389.
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.
Calcium imaging
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Calcium ion gradient
free Ca^{2+} gradient in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.
Calcium to calcium exchange
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
cAMP
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
cAMP signals
cell adhesion in *Dictyostelium*: FAIX, GERISCH AND NOEGEL **102**, 203.
Cancer
tumour macrophages resorb bone: QUINN AND ATHANASOU **101**, 681.
Capacitation
c-*ras* proto-oncogene and sperm cell function: NAZ, AHMAD AND KAPLAN **102**, 487.
Capillary
interendothelial junction in myocardial capillaries: SCHULZE AND FIRTH **101**, 647.
Carboxyfluorescein diacetate succinimidyl ester labelling
cell separation techniques: MURPHY, WATT AND JONES **102**, 789.

Carcinogenesis
protein kinase C and cell growth: CLEMENS, TRAYNER AND MENAYA **103**, 881.
CD11a
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
CD18
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
CD44 proteins
CD44: the hyaluronan receptor: UNDERHILL **103**, 293.
CD54
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
cdc10
cytoskeletal and DNA abnormalities in *S. pombe*: MARKS, FANKHAUSER, REYMOND AND SIMANIS **101**, 517.
cdc2
cyclin A-cdc2 kinase does not trigger cyclin degradation: LORCA, LABBE, DEVAULT, FESQUET, STRAUSFELD, NILSSON, NYGREN, UHLEN, CAVADORE AND DOREE **102**, 55.
M-phase-promoting factor activation: MEIKRANTZ AND SCHLEGEL **101**, 475.
microtubule dynamics during mitosis: FARUKI, DOREE AND KARSENTI **101**, 69.
vertebrate p34^{cdc2} phosphorylation site mutants: KREK, MARKS, SCHMITZ, NIGG AND SIMANIS **102**, 43.
cdc25
M-phase-promoting factor activation: MEIKRANTZ AND SCHLEGEL **101**, 475.
Cell adhesion
activating cell adhesion: CURTIS, MCGRATH AND GASMI **101**, 427.
anti-fibronectin antibodies and cell adhesion: UNDERWOOD, DALTON, STEELE, BENNETT AND STRIKE **102**, 833.
cadherin β_1 integrin chimera: GEIGER, SALOMON, TAKEICHI AND HYNES **103**, 943.
cell adhesion in *Dictyostelium*: FAIX, GERISCH AND NOEGEL **102**, 203.
cell guidance by patterned adhesion: CLARK, CONNOLLY AND MOORES **103**, 287.
extrajunctional distribution of endothelial N-cadherin: SALOMON, AYALON, PATEL-KING, HYNES AND GEIGER **102**, 7.
HeLa cell-substratum adhesion: LU, MCCARRON AND JACOBSON **101**, 873.
β_1 integrins and lymphocyte adhesion to high endothelium: SZEKANECZ, HUMPHRIES AND AGER **101**, 885.
the talin-binding domain in vinculin: GILMORE, JACKSON, WAITES AND CRITCHLEY **103**, 719.
TIRFM quantitation of cell adhesion: TRUSKEY, BURMEISTER, GRAPA AND REICHERT **103**, 491.
Cell adhesion molecules
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.
Cell-cell adhesion
interendothelial junction in myocardial capillaries: SCHULZE AND FIRTH **101**, 647.
junctional stability in MDCK cells: BOGNER, SKEHANT, KENNEY, SAINZ AND FRIEDMAN **103**, 463.
Cell-cell interaction
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.
Cell cortex
cortical cytoskeleton in hair cells: HOLLEY, KALINEC AND KACHAR **102**, 569.
MTs and F-actin at the division site: CLEARY, GUNNING, WASTENEYS AND HEPLER **103**, 977.
Cell culture
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.
preferential DNA synthesis in *N. tabacum*: SUZUKI, KAWANO, SAKAI, FUJIE, KUROIWA, NAKAMURA AND KUROIWA **103**, 831.
Cell cycle
C-mitosis: RIEDER AND PALAZZO **102**, 387.
control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
cyclic redistribution of cytostellin: WARREN, LANDOLFI, CURTIS AND MORROW **103**, 381.
cyclin A-cdc2 kinase does not trigger cyclin degradation: LORCA, LABBE, DEVAULT, FESQUET, STRAUSFELD, NILSSON, NYGREN, UHLEN, CAVADORE AND DOREE **102**, 55.
cyclin B1 in human cell cytoplasm: BAILLY, PINES, HUNTER AND BORNENS **101**, 529.
cytoskeletal and DNA abnormalities in *S. pombe*: MARKS, FANKHAUSER, REYMOND AND SIMANIS **101**, 517.
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
distribution of PCNA during development: LEIBOVICI, MONOD, GERAUDIE, BRAVO AND MECHALI **102**, 63.
DNA-binding domain of RCCI protein: SEINO, HISAMOTO, UZAWA, SEKIGUCHI AND NISHIMOTO **102**, 393.
dynamics of nucleolar proteins: confocal microscopic study: GAUTIER, ROBERT-NICOUD, GUILLY AND HERNANDEZ-VERDUN **102**, 729.
fission yeast cytokinesis: MARKS, FANKHAUSER AND SIMANIS **101**, 801.
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.
nuclear matrix-associated substructures: STUURMAN, DE GRAAF, FLOORE, JOSSO, HUMBEL, DE JONG AND VAN DRIEL **101**, 773.
of activated oocytes: VINCENT, CHEEK AND JOHNSON **103**, 389.plasmid replication in *Xenopus* eggs: SANCHEZ, MAREK AND WANGH **103**, 907.
regulation in human fibroblasts: LARSSON AND WEJDE **103**, 1065.synchronized hair cell regeneration: STONE AND COTANCHE **102**, 671.
vertebrate p34^{cdc2} phosphorylation site mutants: KREK, MARKS, SCHMITZ, NIGG AND SIMANIS **102**, 43.
Cell cycle length
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
Cell division
cell division in *Aspergillus*: DOONAN **103**, 599.
cyclic redistribution of cytostellin: WARREN, LANDOLFI, CURTIS AND MORROW **103**, 381.
host cell division and differentiation in *Theileria*: SHIELS, KINNAIRD, MCKELLAR, DICKSON, MILED, MELROSE, BROWN AND TAIT **101**, 99.

Cell-extracellular matrix junction
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
Cell fractionation
cyclin B1 in human cell cytoplasm: BAILLY, PINES, HUNTER AND BORNENS **101**, 529.
Cell-free system
ATP and protein synthesis rhythms: BRODSKY, BOIKOV, NECHAEVA, YUROVITSKY, NOVIKOVA, FATEEVA AND SCHEVCHENKO **103**, 363.
Cell growth
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.
cell cycle regulation in human fibroblasts: LARSSON AND WEJDE **103**, 1065.
protein kinase C and cell growth: CLEMENS, TRAYNER AND MENAYA **103**, 881.
tissue differentiation in maize roots: BALUSKA, PARKER AND BARLOW **103**, 191.
Cell guidance
cell guidance by patterned adhesion: CLARK, CONNOLLY AND MOORES **103**, 287.
Cell loading
syringe loading: CLARKE AND MCNEIL **102**, 533.
Cell-matrix interactions
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Cell membrane
TIRFM quantitation of cell adhesion: TRUSKEY, BURMEISTER, GRAPA AND REICHERT **103**, 491.
Cell migration
contact stimulation of cell migration: THOMAS AND YAMADA **103**, 1211.
TGF-β inhibition of MSF: ELLIS, GREY, SCHOR AND SCHOR **102**, 447.
Cell motility
cortical cytoskeleton in hair cells: HOLLEY, KALINEC AND KACHAR **102**, 569.
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.
localization of cytoplasmic dynein: LIN AND COLLINS **101**, 125.
Cell polarity
epithelial cell polarity: WOLLNER AND NELSON **102**, 185.
microtubules and epithelial polarity: OJAKIAN AND SCHWIMMER **103**, 677.
Cell shape
cell shape and chromosome orientation in roots: OUD AND NANNINGA **103**, 847.
cortical cytoskeleton in hair cells: HOLLEY, KALINEC AND KACHAR **102**, 569.
Cell surface receptors
tracking cell surface receptors: ANDERSON, GEORGIOU, MORRISON, STEVENSON AND CHERRY **101**, 415.
Cell wall
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
Cellularization
cytokinesis defect in *pebble* mutants: LEHNER **103**, 1021.
from a syncytium in *Theileria parva*: SHAW AND TILNEY **101**, 109.
Central pair microtubules
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.
Centrifugation
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
Centromeres
fluorescence in situ hybridization in yeast: UZAWA AND YANAGIDA **101**, 267.
Centrosomes
cell surface-associated centrosomes: TUCKER, PATON, RICHARDSON, MOGENSEN AND RUSSELL **102**, 215.
cyclin B1 in human cell cytoplasm: BAILLY, PINES, HUNTER AND BORNENS **101**, 529.
formation of metaphase spindle: LESLIE **103**, 125.
SPN antigen nucleates microtubules: KALLAJOKI, WEBER AND OSBORN **102**, 91.
Chara corallina
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
Chelators
junctional stability in MDCK cells: BOGNER, SKEHANT, KENNEY, SAINZ AND FRIEDMAN **103**, 463.
Chemically defined medium
growth of Hep G2 cells in a chemically defined medium: GHERARDI, THOMAS, LE CRAS, FITZSIMMONS, MOORBY AND BOWYER **103**, 531.
Chemoattractants
F-actin localization in polymorphonuclear leucocytes: LEPIDI, BENOLIEL, MEGE, BONGRAND AND CAPO **103**, 145.
Chemotactic peptides
processing of chemotactic peptides in *Tetrahymena*: LEICK **103**, 565.
Chemotaxis
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.
responses of streamer F mutants: SEGALL **101**, 589.
Chlamydomonas
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
microtubule gliding by inner-arm dynein: KAGAMI AND KAMIYA **103**, 653.
Chlorodeoxyuridine
dynamics of DNA replication patterns: MANDERS, STAP, BRAKENHOFF, VAN DRIEL AND ATEN **103**, 857.
Cholesterol
lipid droplets and intermediate filaments: ALMAHBOBI, WILLIAMS AND HALL **101**, 383.
Cholesterol storage
pancreatic acinar cell granule formation: WEINTRAUB, ABRAMOVICI, AMICHAI, ELDAR, BEN-DOR, PENTCHEV AND HAMMEL **102**, 141.
Chondrocytes
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.
human chondrocytes initiate type X collagen synthesis: STEPHENS, KWAN, BAYLISS AND ARCHER **103**, 1111.
Chondrogenesis
bone-marrow-derived chondrogenesis: BERRY, GRANT, MCCLURE AND ROONEY **101**, 333.
expression of tenascin by osteoblasts: MACKIE AND TUCKER **103**, 765.
Chondrons
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Chromatin
histone H1 and transcription: ZLATANOVA AND VAN HOLDE **103**, 889.

rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.
transcriptionally active chromatin: AUSIO **102**, 1.
Chromatin assembly
plasmid replication in *Xenopus* eggs: SANCHEZ, MAREK AND WANGH **103**, 907.
Chromatin protein
DNA-binding domain of RCCI protein: SEINO, HISAMOTO, UZAWA, SEKIGUCHI AND NISHIMOTO **102**, 393.
Chromatin replication
plasmid replication in *Xenopus* eggs: SANCHEZ, MAREK AND WANGH **103**, 907.
Chromosome
dynamics of nucleolar proteins: confocal microscopic study: GAUTIER, ROBERT-NICOUD, GUILLY AND HERNANDEZ-VERDUN **102**, 729.
segregation: SUMNER **103**, 105.
Chromosome 9
characterization of qh region of chromosome 9: LUKE, VERMA, CONTE AND MATHEWS **103**, 919.
Chromosome condensation
chromosome segregation: SUMNER **103**, 105.
Chromosome damage
chromosome segregation: SUMNER **103**, 105.
Chromosome decondensation
role of genome portions on G_1: GONZALEZ-FERNANDEZ, SANS, ALLER AND DE LA TORRE **103**, 1047.
Chromosome motion
calcium modulates spindle microtubules: ZHANG, WADSWORTH AND HEPLER **102**, 79.
evolution and metaphase: NICKLAS AND ARANA **102**, 681.
Chromosome position
condensed chromosome arrangement: JEUN AND LOCKE **103**, 839.
Chromosomes orientation
cell shape and chromosome orientation in roots: OUD AND NANNINGA **103**, 847.
Cilia
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.
myosin in the photoreceptor cilium: WILLIAMS, HALLET AND ARIKAWA **103**, 183.
Ciliophora
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
Cisternae
adhesion of Golgi cisternae: CLUETT AND BROWN **103**, 773.
Clathrin
clathrin light-chain-like polypeptides: LIN, HARLEY, BUTLER AND BEEVERS **103**, 1127.
endocytosis: WATTS AND MARSH **103**, 1.
Clathrin coats
early endosomes of *Paramecium*: ALLEN, SCHROEDER AND FOK **101**, 449.
CLSM
intranuclear co-location of replicated DNA and PCNA: HUMBERT, SANTISTEBAN, USSON AND ROBERT-NICOUD **103**, 97.
Co-culture
dexamethasone effect on laminin in co-cultures: SIMO, SIMON-ASSMANN, ARNOLD AND KEDINGER **101**, 161.
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
Coated vesicles
clathrin light-chain-like polypeptides: LIN, HARLEY, BUTLER AND BEEVERS **103**, 1127.
Cochlea
cell surface-associated centrosomes: TUCKER, PATON, RICHARDSON, MOGENSEN AND RUSSELL **102**, 215.
Coelomocytes
association of kinesin with organelles: HENSON, NESBITT, WRIGHT AND SCHOLEY **103**, 309.
Colcemid
C-mitosis: RIEDER AND PALAZZO **102**, 387.
Collagen
bone-marrow-derived chondrogenesis: BERRY, GRANT, MCCLURE AND ROONEY **101**, 333.
cell to collagen interactions via glycoprotein: ASAGA AND YOSHIZATO **101**, 625.
cytokine effects on collagen gel contraction: TINGSTROM, HELDIN AND RUBIN **102**, 315.
endothelial cell heterogeneity: CANFIELD, WREN, SCHOR, GRANT AND SCHOR **102**, 807.
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.
human chondrocytes initiate type X collagen synthesis: STEPHENS, KWAN, BAYLISS AND ARCHER **103**, 1111.
in fish scales: ZYLBERBERG, BONAVENTURE, COHEN-SOLAR, HARTMANN AND BEREITER-HAHN **103**, 273.
Collagen receptors
cell to collagen interactions via glycoprotein: ASAGA AND YOSHIZATO **101**, 625.
endothelial cell membrane protein polarity: STOLZ AND JACOBSON **103**, 39.
endothelial membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.
HeLa cell-substratum adhesion: LU, MCCARRON AND JACOBSON **101**, 873.
Collagen substratum
TGF-β inhibition of MSF: ELLIS, GREY, SCHOR AND SCHOR **102**, 447.
Collagen type VI
microfibrillar attachment to smooth muscle cells: KIELTY, WHITTAKER, GRANT AND SHUTTLEWORTH **103**, 445.
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Collagen types I and III
skeletal muscle development *in vitro*: SWASDISON AND MAYNE **102**, 643.
Collagenase
synthesis by human osteoblasts: MEIKLE, BORD, HEMBRY, COMPSTON, CROUCHER AND REYNOLDS **103**, 1093.
Commitment to division
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
Condensation
rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.
Condensed chromosomes
arrangement: JEUN AND LOCKE **103**, 839.
Conditioned medium
regulation of LDL receptor in Hep G2 cells: MOORBY, GHERARDI, RIDDELL AND BOWYER **103**, 541.
Confocal microscopy
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.

dynamics of DNA replication patterns: MANDERS, STAP, BRAKENHOFF, VAN DRIEL AND ATEN **103**, 857.
nuclear envelope dynamics in *Drosophila* embryo: RIPARBELLI AND CALLAINI **102**, 299.
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Congression
evolution and metaphase: NICKLAS AND ARANA **102**, 681.
Connexins
lens membrane proteins MP20 and connexin46: TENBROEK, ARNESON, JARVIS AND LOUIS **103**, 245.
testis gap junctions: RISLEY, TAN, ROY AND SAEZ **103**, 81.
Contact guidance
cell guidance by patterned adhesion: CLARK, CONNOLLY AND MOORES **103**, 287.
Contact site A promoter
cell adhesion in *Dictyostelium*: FAIX, GERISCH AND NOEGEL **102**, 203.
Contractile vacuoles
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
Corneal lens
protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
Cortical differentiation
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
wool cortical cell differentiation: CAMPBELL, DOLLIN AND ADELSON **102**, 353.
Cotton fibre
microtubules and microfibrils in cotton fibre development: SEAGULL **101**, 561.
Cross-linking
histone H1 and transcription: ZLATANOVA AND VAN HOLDE **103**, 889.
Culture
collagens in fish scales: ZYLBERBERG, BONAVENTURE, COHEN-SOLAR, HARTMANN AND BEREITER-HAHN **103**, 273.
human chondrocytes initiate type X collagen synthesis: STEPHENS, KWAN, BAYLISS AND ARCHER **103**, 1111.
Cuticular glycoprotein
corneal lens protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
Cyclic AMP
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.
Cyclic GMP
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.
responses of streamer F mutants: SEGALL **101**, 589.
Cyclin
M-phase-promoting factor activation: MEIKRANTZ AND SCHLEGEL **101**, 475.
subcellular distribution of cyclin-p34^{cdc2}: LEISS, FELIX AND KARSENTI **102**, 285.
Cyclin AMP
histamine and endothelial cell permeability: TAKEDA, YAMASHITA, SHIMAZAKI AND MITSUI **101**, 745.
Cyclin degradation
cyclin A-cdc2 kinase does not trigger cyclin degradation: LORCA, LABBE, DEVAULT, FESQUET, STRAUSFELD, NILSSON, NYGREN, UHLEN, CAVADORE AND DOREE **102**, 55.
Cyclin localization
cyclin B1 in human cell cytoplasm: BAILLY, PINES, HUNTER AND BORNENS **101**, 529.
Cytochalasin D
AcMNPV-induced nuclear F-actin: VOLKMAN, TALHOUK, OPPENHEIMER AND CHARLTON **103**, 15.
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Cytochalasins
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
Cytochrome oxidase
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
Cytokeratin
and epithelial cell behaviour: ROBEY, HISCOTT AND GRIERSON **102**, 329.
Xenopus intermediate filament proteins: TORPEY, HEASMAN AND WYLIE **101**, 151.
Cytokines
endothelial GAG modulation in inflammation: KLEIN, SHENNAN, HEYDERMAN AND LEVIN **102**, 821.
immunoprecipitation and immunolabeling of 9E3: MARTINS-GREEN, AOTAKI-KEEN, HJELMELAND AND BISSELL **101**, 701.
TGF-β inhibition of MSF: ELLIS, GREY, SCHOR AND SCHOR **102**, 447.
Cytokinesis
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
control of division plane in *Magnolia* microsporocytes: BROWN AND LEMMON **103**, 1031.
defect in *pebble* mutants: LEHNER **103**, 1021.
fission yeast cytokinesis: MARKS, FANKHAUSER AND SIMANIS **101**, 801.
Cytomechanics
cell and nuclear shape control: SIMS, KARP AND INGBER **103**, 1215.
Cytoplasmic dynein
dyneins in rat tissues: YOSHIDA, TAKANARI AND IZUTSU **101**, 579.
localization of cytoplasmic dynein: LIN AND COLLINS **101**, 125.
Cytoplasmic streaming
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
Cytoskeleton
amphibian intestinal villin: HEUSSER, COLIN, FIGIEL, HUET, KELLER, PORNET, ROBINE, VANDAMME, VANDEKERCKHOVE AND DAUCA **103**, 699.
BN46/51, a new nucleolar protein: TRIMBUR AND WALSH **103**, 167.
cell response to adhesive contacts: GINGELL AND OWENS **101**, 255.
cortical cytoskeleton in hair cells: HOLLEY, KALINEC AND KACHAR **102**, 569.
cytoskeletal and DNA abnormalities in *S. pombe*: MARKS, FANKHAUSER, REYMOND AND SIMANIS **101**, 517.
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
endothelial membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.

hemidesmosomes in epithelial cells: RIDDELLE, HOPKINSON AND JONES **103**, 475.
microtubules and epithelial polarity: OJAKIAN AND SCHWIMMER **103**, 677.
myosin in the photoreceptor cilium: WILLIAMS, HALLET AND ARIKAWA **103**, 183.
nestin and neurofilaments are closely related: DAHLSTRAND, ZIMMERMAN, MCKAY AND LENDAHL **103**, 589.
structure and assembly of *Ascaris MSP*: KING, STEWART, ROBERTS AND SEAVY **101**, 847.
T. brucei microtubule cross-bridge protein: WOODS, BAINES AND GULL **103**, 665.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
tissue differentiation in maize roots: BALUSKA, PARKER AND BARLOW **103**, 191.
β_{III}-tubulin in neuron development: JIANG AND OBLINGER **103**, 643.
tyrosine phosophorylation of actin: SCHWEIGER, MIHALACHE, ECKE AND GERISCH **102**, 601.

Cytosolic calcium
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.

Cytotactin
expression of tenascin by osteoblasts: MACKIE AND TUCKER **103**, 765.

Dermal fibroblasts
characterization of a hetero-spheroid: TAKEZAWA, YAMAZAKI, MORI, YONAHA AND YOSHIZATO **101**, 495.

Desmin
protein domains in vimentin IF assembly: TRAUB, SCHERBARTH, WIEGERS AND SHOEMAN **101**, 363.

Desmoplakins
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.

Desmosomes
distribution of desmosomal proteins: TREVOR AND STEBEN **103**, 69.
junctional stability in MDCK cells: BOGNER, SKEHANT, KENNEY, SAINZ AND FRIEDMAN **103**, 463.

Detyrosination
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.

Development
distribution of PCNA during development: LEIBOVICI, MONOD, GERAUDIE, BRAVO AND MECHALI **102**, 63.
Xenopus intermediate filament proteins: TORPEY, HEASMAN AND WYLIE **101**, 151.

Developmental gene regulation
cell adhesion in *Dictyostelium*: FAIX, GERISCH AND NOEGEL **102**, 203.

Dextran
free Ca^{2+} gradient in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.

Dictyostelium discoideum
Ca^{2+} and protein secretion in *Dictyostelium*: COUKELL, CAMERON AND ADAMES **103**, 371.
cell adhesion in *Dictyostelium*: FAIX, GERISCH AND NOEGEL **102**, 203.
endocytosis mutants in *Dictyostelium*: BOF, BRENOT, GONZALEZ, KLEIN, MARTIN AND SATRE **101**, 139.
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.
responses of streamer F mutants: SEGALL **101**, 589.
tyrosine phosophorylation of actin: SCHWEIGER, MIHALACHE, ECKE AND GERISCH **102**, 601.

Differentiation
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.
dexamethasone effect on laminin in co-cultures: SIMO, SIMON-ASSMANN, ARNOLD AND KEDINGER **101**, 161.
distribution of desmosomal proteins: TREVOR AND STEBEN **103**, 69.
ectopic expression of lamin A in CEM cells: LOURIM AND LIN **103**, 863.
endothelial cell differentiation by TGF-β: ARCINIEGAS, ELLEN AND SCHOR **103**, 521.
host cell division and differentiation in *Theileria*: SHIELS, KINNAIRD, MCKELLAR, DICKSON, MILED, MELROSE, BROWN AND TAIT **101**, 99.
insulin and somatostatin gene expression: SAULNIER-MICHEL, FROMONT-RACINE AND PICTET **101**, 795.
integrin expression in HPV-transformed cells: KAUR AND CARTER **103**, 755.
integrin expression in the small intestine: BEAULIEU **102**, 427.
lamin A redistribution during differentiation: COLLARD, SENECAL AND RAYMOND **101**, 657.
single-stranded DNA breaks in regenerating muscle: COULTON, ROGERS, STRUTT, SKYNNER AND WATT **102**, 653.
tissue differentiation in maize roots: BALUSKA, PARKER AND BARLOW **103**, 191.
vimentin expression in promonocytic cells: RIUS AND ALLER **101**, 395.

Differentiation markers
wool cortical cell differentiation: CAMPBELL, DOLLIN AND ADELSON **102**, 353.

25-Dihydroxyvitamin D_3
rat adipogenesis and osteogenesis: BERESFORD, BENNETT, DEVLIN, LEBOY AND OWEN **102**, 341.

Dimethyl sulfoxide
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.

Dinoflagellate
Prorocentrum micans nucleolus behaviour: SOYER-GOBILLARD AND GERAUD **102**, 475.

$DiOC_6$
staining of ER by $DiOC_6(3)$: TERASAKI AND REESE **101**, 315.

Divalent cations
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.

Dividing cells
spindle matrix: STEFFEN AND LINCK **101**, 809.

Division of mitochondrion
synthesis of mitochondrial DNA in *P. zonale*: KUROIWA, MAKOTO AND KUROIWA **101**, 483.

Division plane
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.

Division site
MTs and F-actin at the division site: CLEARY, GUNNING, WASTENEYS AND HEPLER **103**, 977.

DNA
dimeric transcription factor families: LEE **103**, 9.

DNA accessibility
poly ADP-ribosylation in DNA excision repair: ALTHAUS **102**, 663.

DNA breaks
single-stranded DNA breaks in regenerating muscle: COULTON, ROGERS, STRUTT, SKYNNER AND WATT **102**, 653.
DNA bromosubstitution
role of genome portions on G_1: GONZALEZ-FERNANDEZ, SANS, ALLER AND DE LA TORRE **103**, 1047.
DNA polymerase-primase
gene for 180 kDa subunit of DNA polymerase: MELOV, VAUGHAN AND COTTERILL **102**, 847.
DNA replication
antisense oligo inhibition of DNA synthesis: KUMBLE, IVERSEN AND VISHWANATHA **101**, 35.
association of PRP with nuclear matrix: VISHWANATHA, JINDAL AND DAVIS **101**, 25.
dynamics of DNA replication patterns: MANDERS, STAP, BRAKENHOFF, VAN DRIEL AND ATEN **103**, 857.
gene for 180 kDa subunit of DNA polymerase: MELOV, VAUGHAN AND COTTERILL **102**, 847.
in polytene nuclei: SLEEMAN, LENO, MILLS, FAIRMAN AND LASKEY **101**, 509.
transport requirement in DNA replication: COX **101**, 43.
DNA synthesis
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.
DNA/nuclear proteins
cell proliferation markers in pea: CITTERIO, SGORBATI, LEVI, COLOMBO AND SPARVOLI **102**, 71.
Dolichol
cell cycle regulation in human fibroblasts: LARSSON AND WEJDE **103**, 1065.
Domains
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.
tracking cell surface receptors: ANDERSON, GEORGIOU, MORRISON, STEVENSON AND CHERRY **101**, 415.
Drosocrystallin
corneal lens protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
Drosophila
corneal lens protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
cytokinesis defect in *pebble* mutants: LEHNER **103**, 1021.
gene for 180 kDa subunit of DNA polymerase: MELOV, VAUGHAN AND COTTERILL **102**, 847.
Golgi complex modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.
myosin I-like proteins in *Drosophila* retina: HICKS AND WILLIAMS **101**, 247.
tissue-specific spicing of *shibire*: CHEN, BURGESS, VALLEE AND WADSWORTH **103**, 619.
***Drosophila* embryo**
nuclear envelope dynamics in *Drosophila* embryo: RIPARBELLI AND CALLAINI **102**, 299.
***Drosophila* oocytes/early embryos**
meiosis and mitosis in ncd mutants: HATSUMI AND ENDOW **101**, 547.
Dye transport
dye transport in insect Malpighian tubules: MEULEMANS AND DE LOOF **101**, 349.
Dynabeads
cell separation techniques: MURPHY, WATT AND JONES **102**, 789.
Dynamic instability
brain MAPs modulate dynamic instability: PRYER, WALKER, SKEEN, BOURNS, SOBOEIRO AND SALMON **103**, 965.
Dynein
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.
Dystrophin
dystrophin and laminin: DICKSON, AZAD, MORRIS, SIMON, NOURSADEGHI AND WALSH **103**, 1223.
dystrophin localization induced by beads: PENG AND CHEN **103**, 551.

Early endosome
recycling pathways of glucosylceramide: KOK, HOEKSTRA, ESKELINEN AND HOEKSTRA **103**, 1139.
EGF-receptor
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.
Egg activation
a Ca^{2+}-dependent wave of intracellular pH change: GRANDIN AND CHARBONNEAU **101**, 55.
Eggs
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.
Electron microscopy
early endosome plasticity: PARTON, SCHROTZ, BUCCI AND GRUENBERG **103**, 335.
lipid droplets and intermediate filaments: ALMAHBOBI, WILLIAMS AND HALL **101**, 383.
pancreatic acinar cell granule formation: WEINTRAUB, ABRAMOVICI, AMICHAI, ELDAR, BEN-DOR, PENTCHEV AND HAMMEL **102**, 141.
the mechanics of biological membrane fusion: PLATTNER, KNOLL AND ERXLEBEN **103**, 613.
Electrophoresis
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
Electroporation
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.
Embryonal carcinoma
distribution of desmosomal proteins: TREVOR AND STEBEN **103**, 69.
Endocytic compartments
endocytic compartments of transferrin cycle: KILLISCH, STEINLEIN, ROMISCH, HOLLINSHEAD, BEUG AND GRIFFITHS **103**, 211.
Endocytosis
endocytosis mutants in *Dictyostelium*: BOF, BRENOT, GONZALEZ, KLEIN, MARTIN AND SATRE **101**, 139.
macropinocytosis uncouples endocytosis: RACOOSIN AND SWANSON **102**, 867.
pre-lysosomal compartments in *T. cruzi*: SOARES, SOUTO-PADRON AND DE SOUZA **102**, 157.
tissue-specific spicing of *shibire*: CHEN, BURGESS, VALLEE AND WADSWORTH **103**, 619.
what goes in and how: WATTS AND MARSH **103**, 1.
transport to prelysosomal compartments: ZACHGO, DOBBERSTEIN AND GRIFFITHS **103**, 811.
Endoderm
amphibian intestinal villin: HEUSSER, COLIN, FIGIEL, HUET, KELLER, PORNET, ROBINE, VANDAMME, VANDEKERCKHOVE AND DAUCA **103**, 699.

Endoglucanase
protein secretion by epithelial cells: SOOLE, HALL, JEPSON, HAZLEWOOD, GILBERT AND HIRST **102**, 495.
Endomembranes
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.
Endonexin
effects of mammalian annexins in yeast: CREUTZ, KAMBOURIS, SNYDER, HAMMAN, NELSON, LIU AND ROCK **103**, 1177.
Endoplasm
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
Endoplasmic reticulum
characterization of p58 in pancreatic cells: LAHTINEN, DAHLLOF AND SARASTE **103**, 321.
ER targeting in plants: NAPIER, FOWKE, HAWES, LEWIS AND PELHAM **102**, 261.
staining of ER by $DiOC_6(3)$: TERASAKI AND REESE **101**, 315.
Endosome carrier vesicle (ECV)
transport to prelysosomal compartments: ZACHGO, DOBBERSTEIN AND GRIFFITHS **103**, 811.
Endothelial cell monolayer
histamine and endothelial cell permeability: TAKEDA, YAMASHITA, SHIMAZAKI AND MITSUI **101**, 745.
Endothelial cell polarity
endothelial cell membrane protein polarity: STOLZ AND JACOBSON **103**, 39.
Endothelial cells
cell heterogeneity: CANFIELD, WREN, SCHOR, GRANT AND SCHOR **102**, 807.
differentiation by TGF-β: ARCINIEGAS, ELLEN AND SCHOR **103**, 521.
extrajunctional distribution of endothelial N-cadherin: SALOMON, AYALON, PATEL-KING, HYNES AND GEIGER **102**, 7.
GAG modulation in inflammation: KLEIN, SHENNAN, HEYDERMAN AND LEVIN **102**, 821.
a heparin-binding mitogen for pericytes: SWINSCOE AND CARLSON **103**, 453.
interendothelial junction in myocardial capillaries: SCHULZE AND FIRTH **101**, 647.
membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.
β_4 integrin on endothelium: KENNEL, GODFREY, CH'ANG, LANKFORD, FOOTE AND MAKKINJE **101**, 145.
rat brain endothelial culture: ABBOTT, HUGHES, REVEST AND GREENWOOD **103**, 23.
Endotoxin
endothelial GAG modulation in inflammation: KLEIN, SHENNAN, HEYDERMAN AND LEVIN **102**, 821.
Enhanced secretion
gene PSE-1 in yeast: CHOW, ASH, DIGNARD AND THOMAS **101**, 709.
Epiboly
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.
Epidermal migration
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.
Epidermis
integrin expression in HPV-transformed cells: KAUR AND CARTER **103**, 755.
Epiplasm
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
Epithelial cells
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
primary culture of intestinal epithelium: FUKAMACHI **103**, 511.
protein secretion by epithelial cells: SOOLE, HALL, JEPSON, HAZLEWOOD, GILBERT AND HIRST **102**, 495.
Epithelial/fibroblastic interactions
dexamethasone effect on laminin in co-cultures: SIMO, SIMON-ASSMANN, ARNOLD AND KEDINGER **101**, 161.
Epithelium
cytokeratins and epithelial cell behaviour: ROBEY, HISCOTT AND GRIERSON **102**, 329.
differentiated adult prostate epithelium: HAYWARD, DEL BUONO, DESHPANDE AND HALL **102**, 361.
epithelial cell polarity: WOLLNER AND NELSON **102**, 185.
primary cultures of intestinal epithelium: EVANS, FLINT, SOMERS AND POTTEN **101**, 219.
Epithelization
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.
Epitope mapping
ER targeting in plants: NAPIER, FOWKE, HAWES, LEWIS AND PELHAM **102**, 261.
Erythroid differentiation
endocytic compartments of transferrin cycle: KILLISCH, STEINLEIN, ROMISCH, HOLLINSHEAD, BEUG AND GRIFFITHS **103**, 211.
Evolution
nestin and neurofilaments are closely related: DAHLSTRAND, ZIMMERMAN, MCKAY AND LENDAHL **103**, 589.
Exocytosis
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.
effects of mammalian annexins in yeast: CREUTZ, KAMBOURIS, SNYDER, HAMMAN, NELSON, LIU AND ROCK **103**, 1177.
microtubules and secretion from mammary cells: RENNISON, HANDEL, WILDE AND BURGOYNE **102**, 239.
Extracellular matrix
adhesion of chondrocytes to synovial fibroblasts: RAMACHANDRULA, TIKU AND TIKU **101**, 859.
cell and nuclear shape control: SIMS, KARP AND INGBER **103**, 1215.
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.
expression of tenascin by osteoblasts: MACKIE AND TUCKER **103**, 765.
integrin expression in the small intestine: BEAULIEU **102**, 427.
the talin-binding domain in vinculin: GILMORE, JACKSON, WAITES AND CRITCHLEY **103**, 719.
Ezrin
the ezrin-radixin-moesin family: SATO, FUNAYAMA, NAGAFUCHI, YONEMURA, TSUKITA AND TSUKITA **103**, 131.

F-actin
F-actin localization in polymorphonuclear leucocytes: LEPIDI, BENOLIEL, MEGE, BONGRAND AND CAPO **103**, 145.
MTs and F-actin at the division site: CLEARY, GUNNING, WASTENEYS AND HEPLER **103**, 977.
Fc-receptors
the macrophage capacity for phagocytosis: CANNON AND SWANSON **101**, 907.
Fern protonema
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
Fertilization
c-*ras* proto-oncogene and sperm cell function: NAZ, AHMAD AND KAPLAN **102**, 487.
Fibrillin
microfibrillar attachment to smooth muscle cells: KIELTY, WHITTAKER, GRANT AND SHUTTLEWORTH **103**, 445.
Fibrinogen
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.
Fibroblasts
cell cycle regulation in human fibroblasts: LARSSON AND WEJDE **103**, 1065.
cell to collagen interactions via glycoprotein: ASAGA AND YOSHIZATO **101**, 625.
cytokine effects on collagen gel contraction: TINGSTROM, HELDIN AND RUBIN **102**, 315.
retinoic acid receptors in cultured skin cells: REDFERN AND TODD **102**, 113.
TGF-β inhibition of MSF: ELLIS, GREY, SCHOR AND SCHOR **102**, 447.
Fibronectin
activating cell adhesion: CURTIS, MCGRATH AND GASMI **101**, 427.
adhesion of chondrocytes to synovial fibroblasts: RAMACHANDRULA, TIKU AND TIKU **101**, 859.
alternative splicing of IIICS: MARDON AND SEBASTIO **103**, 423.
anti-fibronectin antibodies and cell adhesion: UNDERWOOD, DALTON, STEELE, BENNETT AND STRIKE **102**, 833.
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.
cell and nuclear shape control: SIMS, KARP AND INGBER **103**, 1215.
endothelial cell heterogeneity: CANFIELD, WREN, SCHOR, GRANT AND SCHOR **102**, 807.
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.
PKC and focal adhesion formation: WOODS AND COUCHMAN **101**, 277.
surface expression of fibronectin: PUJADES, FORSBERG, ENRICH AND JOHANSSON **102**, 815.
variant BeWo carcinoma cells: APLIN, SATTAR AND MOULD **103**, 435.
Fibronectin receptor
adhesion of chondrocytes to synovial fibroblasts: RAMACHANDRULA, TIKU AND TIKU **101**, 859.
surface expression of fibronectin: PUJADES, FORSBERG, ENRICH AND JOHANSSON **102**, 815.
Fibronectin repeats
sequence of human muscle C-protein: FURST, VINKEMEIER AND WEBER **102**, 769.
Filament assembly
a structural role for a conserved IF sequence: KOUKLIS, TRAUB AND GEORGATOS **102**, 31.
Filamin
filamin/intermediate filament association: BROWN AND BINDER **102**, 19.
Filensin
filensin-membrane interactions: BRUNKENER AND GEORGATOS **103**, 709.
Fish scales
collagens in fish scales: ZYLBERBERG, BONAVENTURE, COHEN-SOLAR, HARTMANN AND BEREITER-HAHN **103**, 273.
Flagella
microtubule gliding by inner-arm dynein: KAGAMI AND KAMIYA **103**, 653.
Flagellar beating
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.
Flagellate cells
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
Flotation
filensin-membrane interactions: BRUNKENER AND GEORGATOS **103**, 709.
Flow cytometry
cell proliferation markers in pea: CITTERIO, SGORBATI, LEVI, COLOMBO AND SPARVOLI **102**, 71.
Fluorescence in situ hybridization (FISH
fluorescence in situ hybridization in yeast: UZAWA AND YANAGIDA **101**, 267.
Fluorescence microscopy
artifactual localization of soluble proteins: MELAN AND SLUDER **101**, 731.
phospholipid accumulation in schistosomes: FURLONG, THIBAULT AND ROGERS **103**, 823.
recycling pathways of glucosylceramide: KOK, HOEKSTRA, ESKELINEN AND HOEKSTRA **103**, 1139.
Focal adhesions
PKC and focal adhesion formation: WOODS AND COUCHMAN **101**, 277.
role of talin in focal adhesions: NUCKOLLS, ROMER AND BURRIDGE **102**, 753.
Fracture-flip
cell surfaces during viral budding: PAVAN, COVELLI, PASCALE, LUCANIA, BONATTI, PINTO DA SILVA AND TORRISI **102**, 149.
FRAP
tracking cell surface receptors: ANDERSON, GEORGIOU, MORRISON, STEVENSON AND CHERRY **101**, 415.
Free Ca^{2+} gradient
in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.
Fucus
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.
Fungi
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
Fura-2 dextran
free Ca^{2+} gradient in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.

G_1 regulation
role of genome portions on G_1: GONZALEZ-FERNANDEZ, SANS, ALLER AND DE LA TORRE **103**, 1047.
G_2/M transition
inhibition of disappearance of PPBs: KATSUTA AND SHIBAOKA **103**, 397.

Galaptin
14 kDa lectin in myoblasts and myotubes: HARRISON AND WILSON **101**, 635.
Gap junctions
testis gap junctions: RISLEY, TAN, ROY AND SAEZ **103**, 81.
Gelatinase
collagenase synthesis by human osteoblasts: MEIKLE, BORD, HEMBRY, COMPSTON, CROUCHER AND REYNOLDS **103**, 1093.
Gene expression
human involucrin promoter: CARROLL AND TAICHMAN **103**, 925.
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
Genome regions
role of genome portions on G_1: GONZALEZ-FERNANDEZ, SANS, ALLER AND DE LA TORRE **103**, 1047.
Genome separation
genome separation in reconstructed metaphases: SCHWARZACHER, HESLOP-HARRISON, ANAMTHAWAT-JONSSON, FINCH AND BENNETT **101**, 13.
Gill cilia
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
Glucocorticoids
dexamethasone effect on laminin in co-cultures: SIMO, SIMON-ASSMANN, ARNOLD AND KEDINGER **101**, 161.
rat adipogenesis and osteogenesis: BERESFORD, BENNETT, DEVLIN, LEBOY AND OWEN **102**, 341.
Glycoconjugates
Golgi complex modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.
Glycolipids
recycling pathways of glucosylceramide: KOK, HOEKSTRA, ESKELINEN AND HOEKSTRA **103**, 1139.
Glycoproteins
cell to collagen interactions via glycoprotein: ASAGA AND YOSHIZATO **101**, 625.
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.
Glycosaminoglycans
endothelial GAG modulation in inflammation: KLEIN, SHENNAN, HEYDERMAN AND LEVIN **102**, 821.
Glycosyltransferase
cadherin mediated adhesion in pancreatic islet cells: BAUER, BALSAMO AND LILIEN **103**, 1235.
Gold/Fab
troponin-H on insect thin filaments: NEWMAN, BUTCHER, BULLARD AND LEONARD **101**, 503.
Golgi
adhesion of Golgi cisternae: CLUETT AND BROWN **103**, 773.
characterization of p58 in pancreatic cells: LAHTINEN, DAHLLOF AND SARASTE **103**, 321.
disorganization of the Golgi complex: THYBERG AND MOSKALEWSKI **103**, 1167.
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.
mimicking mitotic Golgi disassembly: LUCOCQ **103**, 875.
modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.
rab6p is localized in the *trans*-Golgi network: ANTONY, CIBERT, GERAUD, SANTA MARIA, MARO, MAYAU AND GOUD **103**, 785.
recycling pathways of glucosylceramide: KOK, HOEKSTRA, ESKELINEN AND HOEKSTRA **103**, 1139.
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Granule formation
pancreatic acinar cell granule formation: WEINTRAUB, ABRAMOVICI, AMICHAI, ELDAR, BEN-DOR, PENTCHEV AND HAMMEL **102**, 141.
Gravisensing
cell-ECM junction and gravisensing: WAYNE, STAVES AND LEOPOLD **101**, 611.
***gro* genes**
immunoprecipitation and immunolabeling of 9E3: MARTINS-GREEN, AOTAKI-KEEN, HJELMELAND AND BISSELL **101**, 701.
Growth cones
axons, astrocytes and oligodendrocytes: FAWCETT, FERSHT, HOUSDEN, SCHACHNER AND PESHEVA **103**, 571.
$pp60^{c\text{-}src}$/pp38 complex in growth cones: MEYERSON, PFENNINGER AND PAHLMAN **103**, 233.
Growth factors
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
a heparin-binding mitogen for pericytes: SWINSCOE AND CARLSON **103**, 453.
GTP-binding protein
rab5 and early endosome plasticity: PARTON, SCHROTZ, BUCCI AND GRUENBERG **103**, 335.
rab6p is localized in the *trans*-Golgi network: ANTONY, CIBERT, GERAUD, SANTA MARIA, MARO, MAYAU AND GOUD **103**, 785.
Gyronemin
filamin/intermediate filament association: BROWN AND BINDER **102**, 19.

Heavy chains
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
HeLa cells
effects of okadaic acid on mitotic cells: GHOSH, PAWELETZ AND SCHROETER **103**, 117.
HeLa cell-substratum adhesion: LU, MCCARRON AND JACOBSON **101**, 873.
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Hep G2
growth of Hep G2 cells in a chemically defined medium: GHERARDI, THOMAS, LE CRAS, FITZSIMMONS, MOORBY AND BOWYER **103**, 531.
regulation of LDL receptor in Hep G2 cells: MOORBY, GHERARDI, RIDDELL AND BOWYER **103**, 541.
Heparin-binding
anti-fibronectin antibodies and cell adhesion: UNDERWOOD, DALTON, STEELE, BENNETT AND STRIKE **102**, 833.
Heparin-binding growth factor
ACh receptor clustering induced by polymer beads: BAKER, CHEN AND PENG **102**, 543.

Hepatic cell lines
transactivation by HNF1 and LAP: ANGRAND, ROUSSET AND WEISS **103**, 1083.
Hepatocytes *in vitro*
ATP and protein synthesis rhythms: BRODSKY, BOIKOV, NECHAEVA, YUROVITSKY, NOVIKOVA, FATEEVA AND SCHEVCHENKO **103**, 363.
Heterochromatin
Drosophila homologs from a mealybug: EPSTEIN, JAMES AND SINGH **101**, 463.
Heterogeneity
endothelial cell heterogeneity: CANFIELD, WREN, SCHOR, GRANT AND SCHOR **102**, 807.
Hexylene glycol
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
High endothelium
β_1 integrins and lymphocyte adhesion to high endothelium: SZEKANECZ, HUMPHRIES AND AGER **101**, 885.
Histamine
and endothelial cell permeability: TAKEDA, YAMASHITA, SHIMAZAKI AND MITSUI **101**, 745.
Histone H1
histone H1 and transcription: ZLATANOVA AND VAN HOLDE **103**, 889.
Histones
poly ADP-ribosylation in DNA excision repair: ALTHAUS **102**, 663.
transcriptionally active chromatin: AUSIO **102**, 1.
HMG-CoA reductase
growth of Hep G2 cells in a chemically defined medium: GHERARDI, THOMAS, LE CRAS, FITZSIMMONS, MOORBY AND BOWYER **103**, 531.
Homology to CF gene
gene PSE-1 in yeast: CHOW, ASH, DIGNARD AND THOMAS **101**, 709.
Hordeum
genome separation in reconstructed metaphases: SCHWARZACHER, HESLOP-HARRISON, ANAMTHAWAT-JONSSON, FINCH AND BENNETT **101**, 13.
Human cartilage
human chondrocytes initiate type X collagen synthesis: STEPHENS, KWAN, BAYLISS AND ARCHER **103**, 1111.
Human hepatocyte growth factor (h-HGF)
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
Human papillomavirus 16
integrin expression in HPV-transformed cells: KAUR AND CARTER **103**, 755.
Hyaladherins
CD44: the hyaluronan receptor: UNDERHILL **103**, 293.
Hyaluron receptor
CD44: the hyaluronan receptor: UNDERHILL **103**, 293.

IIICS region
alternative splicing of IIICS: MARDON AND SEBASTIO **103**, 423.
Image analysis
dynamics of DNA replication patterns: MANDERS, STAP, BRAKENHOFF, VAN DRIEL AND ATEN **103**, 857.
Immuno-electron microscopy
rab6p is localized in the *trans*-Golgi network: ANTONY, CIBERT, GERAUD, SANTA MARIA, MARO, MAYAU AND GOUD **103**, 785.
Immunoblotting
dyneins in rat tissues: YOSHIDA, TAKANARI AND IZUTSU **101**, 579.
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
Immunochemistry
ER targeting in plants: NAPIER, FOWKE, HAWES, LEWIS AND PELHAM **102**, 261.
spindle matrix: STEFFEN AND LINCK **101**, 809.
Immunocytochemistry
artifactual localization of soluble proteins: MELAN AND SLUDER **101**, 731.
corneal lens protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
pre-lysosomal compartments in *T. cruzi*: SOARES, SOUTO-PADRON AND DE SOUZA **102**, 157.
rat brain endothelial culture: ABBOTT, HUGHES, REVEST AND GREENWOOD **103**, 23.
Immunofluorescence
artifactual localization of soluble proteins: MELAN AND SLUDER **101**, 731.
intranuclear co-location of replicated DNA and PCNA: HUMBERT, SANTISTEBAN, USSON AND ROBERT-NICOUD **103**, 97.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
Immunogold electron microscopy
early endosomes of *Paramecium*: ALLEN, SCHROEDER AND FOK **101**, 449.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
Immunohistochemistry
dyneins in rat tissues: YOSHIDA, TAKANARI AND IZUTSU **101**, 579.
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Immunolabelling
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
Immunoprecipitation
immunoprecipitation and immunolabeling of 9E3: MARTINS-GREEN, AOTAKI-KEEN, HJELMELAND AND BISSELL **101**, 701.
Imprinting
Drosophila homologs from a mealybug: EPSTEIN, JAMES AND SINGH **101**, 463.
In vitro motility
microtubule gliding by inner-arm dynein: KAGAMI AND KAMIYA **103**, 653.
In vitro
primary cultures of intestinal epithelium: EVANS, FLINT, SOMERS AND POTTEN **101**, 219.
Inflammation
endothelial GAG modulation in inflammation: KLEIN, SHENNAN, HEYDERMAN AND LEVIN **102**, 821.
Inner-arm dynein
microtubule gliding by inner-arm dynein: KAGAMI AND KAMIYA **103**, 653.
Insect haemocytes
heterogeneity in *P. americana*: CHAIN, LEYSHON-SORLAND AND SIVA-JOTHY **103**, 1261.
Insect immunity
haemocyte heterogeneity in *P. americana*: CHAIN, LEYSHON-SORLAND AND SIVA-JOTHY **103**, 1261.

Insect muscle
troponin-H on insect thin filaments: NEWMAN, BUTCHER, BULLARD AND LEONARD **101**, 503.
Insulin
and somatostatin gene expression: SAULNIER-MICHEL, FROMONT-RACINE AND PICTET **101**, 795.
Integrin
$\alpha_6\beta_4$ integrin distribution: NATALI, NICOTRA, BIGOTTI AND DE MARTINO **103**, 1243.
adhesion of chondrocytes to synovial fibroblasts: RAMACHANDRULA, TIKU AND TIKU **101**, 859.
β_1 integrins and keratinocyte activation: KIM, ISHIHARA, LEE, AKIYAMA, YAMADA AND GRINNELL **103**, 743.
β_1 integrins and lymphocyte adhesion to high endothelium: SZEKANECZ, HUMPHRIES AND AGER **101**, 885.
β_4 integrin on endothelium: KENNEL, GODFREY, CH'ANG, LANKFORD, FOOTE AND MAKKINJE **101**, 145.
cadherin β_1 integrin chimera: GEIGER, SALOMON, TAKEICHI AND HYNES **103**, 943.
cell and nuclear shape control: SIMS, KARP AND INGBER **103**, 1215.
expression in HPV-transformed cells: KAUR AND CARTER **103**, 755.
expression in the small intestine: BEAULIEU **102**, 427.
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
morphogenesis and the $\alpha_2\beta_1$ integrin: BERDICHEVSKY, GILBERT, SHEARER AND TAYLOR-PAPADIMITRIOU **102**, 437.
PKC and focal adhesion formation: WOODS AND COUCHMAN **101**, 277.
the talin-binding domain in vinculin: GILMORE, JACKSON, WAITES AND CRITCHLEY **103**, 719.
variant BeWo carcinoma cells: APLIN, SATTAR AND MOULD **103**, 435.
wound keratinocytes and integrin modulation: GRINNELL **101**, 1.
Integrin subunit
integrin subunit expression in bone cells: CLOVER, DODDS AND GOWEN **103**, 267.
Intercellular adhesion molecule 1
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
Interendothelial junction
interendothelial junction in myocardial capillaries: SCHULZE AND FIRTH **101**, 647.
Interleukin-1
cytokine effects on collagen gel contraction: TINGSTROM, HELDIN AND RUBIN **102**, 315.
Intermediate filaments
a structural role for a conserved IF sequence: KOUKLIS, TRAUB AND GEORGATOS **102**, 31.
filamin/intermediate filament association: BROWN AND BINDER **102**, 19.
nestin and neurofilaments are closely related: DAHLSTRAND, ZIMMERMAN, MCKAY AND LENDAHL **103**, 589.
plant nuclear lamins: MCNULTY AND SAUNDERS **103**, 407.
protein domains in vimentin IF assembly: TRAUB, SCHERBARTH, WIEGERS AND SHOEMAN **101**, 363.
vimentin filaments in mouse fibroblasts: COLEMAN AND LAZARIDES **103**, 689.
Intermediate filament structure
interference in vimentin assembly by peptides: HOFMANN AND HERRMANN **101**, 687.
Internalization
early endosome plasticity: PARTON, SCHROTZ, BUCCI AND GRUENBERG **103**, 335.
Intestinal cells
integrin expression in the small intestine: BEAULIEU **102**, 427.
Intestine
amphibian intestinal villin: HEUSSER, COLIN, FIGIEL, HUET, KELLER, PORNET, ROBINE, VANDAMME, VANDEKERCKHOVE AND DAUCA **103**, 699.
primary cultures of intestinal epithelium: EVANS, FLINT, SOMERS AND POTTEN **101**, 219.
Intracellular Ca^{2+} transient
a Ca^{2+}-dependent wave of intracellular pH change: GRANDIN AND CHARBONNEAU **101**, 55.
Intracellular pH wave
a Ca^{2+}-dependent wave of intracellular pH change: GRANDIN AND CHARBONNEAU **101**, 55.
Intracellular transport
effect of caffeine on SFV membrane proteins: KUISMANEN, JANTTI, MAKIRANTA AND SARIOLA **102**, 505.
Invariant chain (Ii)
transport to prelysosomal compartments: ZACHGO, DOBBERSTEIN AND GRIFFITHS **103**, 811.
Invasion
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Involucrin
antisense inhibition of involucrin synthesis: GRIFFIN AND HARRIS **102**, 799.
human involucrin promoter: CARROLL AND TAICHMAN **103**, 925.
Iododeoxyuridine
dynamics of DNA replication patterns: MANDERS, STAP, BRAKENHOFF, VAN DRIEL AND ATEN **103**, 857.
Ion microscopy
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Islet cells
cadherin mediated adhesion in pancreatic islet cells: BAUER, BALSAMO AND LILIEN **103**, 1235.
Isoprenylation
isoprenylation of rab proteins: PETER, CHAVRIER, NIGG AND ZERIAL **102**, 857.

JIM 84
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.

Keratinocytes
human involucrin promoter: CARROLL AND TAICHMAN **103**, 925.
β_1 integrins and keratinocyte activation: KIM, ISHIHARA, LEE, AKIYAMA, YAMADA AND GRINNELL **103**, 743.
retinoic acid receptors in cultured skin cells: REDFERN AND TODD **102**, 113.
wound keratinocytes and integrin modulation: GRINNELL **101**, 1.
Keratins
distribution of desmosomal proteins: TREVOR AND STEBEN **103**, 69.
Kinase
vertebrate $p34^{cdc2}$ phosphorylation site mutants: KREK, MARKS, SCHMITZ, NIGG AND SIMANIS **102**, 43.

Kinase inhibitors
inhibition of disappearance of PPBs: KATSUTA AND SHIBAOKA **103**, 397.
Kinesin
association of kinesin with organelles: HENSON, NESBITT, WRIGHT AND SCHOLEY **103**, 309.
-related proteins and mitosis: SAWIN, MITCHISON AND WORDEMAN **101**, 303.
-related protein and spindle localization of ncd: HATSUMI AND ENDOW **103**, 1013.
Kinesin superfamily
sea urchin egg kinesin-related protein: COLE, CANDE, BASKIN, SKOUFIAS, HOGAN AND SCHOLEY **101**, 291.
Kinetochores
fluorescence in situ hybridization in yeast: UZAWA AND YANAGIDA **101**, 267.
formation of metaphase spindle: LESLIE **103**, 125.
kinetochore formation after PCC: RATTNER AND WANG **103**, 1039.

Label fracture
cell surfaces during viral budding: PAVAN, COVELLI, PASCALE, LUCANIA, BONATTI, PINTO DA SILVA AND TORRISI **102**, 149.
Lamin B phsophorylation
PKC isotypes in human erythroleukemia cells: HOCEVAR, MORROW, TYKOCINSKI AND FIELDS **101**, 671.
Lamina
lamin A redistribution during differentiation: COLLARD, SENECAL AND RAYMOND **101**, 657.
Laminin
dexamethasone effect on laminin in co-cultures: SIMO, SIMON-ASSMANN, ARNOLD AND KEDINGER **101**, 161.
dystrophin and laminin: DICKSON, AZAD, MORRIS, SIMON, NOURSADEGHI AND WALSH **103**, 1223.
Lampbrush chromosome
novel structure in lampbrush chromosomes: SOLOVEI, GAGINSKAYA, ALLEN AND MACGREGOR **101**, 759.
Large intestine
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
Laser scanning confocal microscopy
rab6p is localized in the *trans*-Golgi network: ANTONY, CIBERT, GERAUD, SANTA MARIA, MARO, MAYAU AND GOUD **103**, 785.
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Lateral diffusion
tracking cell surface receptors: ANDERSON, GEORGIOU, MORRISON, STEVENSON AND CHERRY **101**, 415.
LDL receptor
growth of Hep G2 cells in a chemically defined medium: GHERARDI, THOMAS, LE CRAS, FITZSIMMONS, MOORBY AND BOWYER **103**, 531.
regulation of LDL receptor in Hep G2 cells: MOORBY, GHERARDI, RIDDELL AND BOWYER **103**, 541.
Lectins
14 kDa lectin in myoblasts and myotubes: HARRISON AND WILSON **101**, 635.
transport requirement in DNA replication: COX **101**, 43.
wool cortical cell differentiation: CAMPBELL, DOLLIN AND ADELSON **102**, 353.
Leishmania
intracellular trafficking in *Leishmania*-infected macrophages: RUSSELL, XU AND CHAKRABORTY **103**, 1193.
Lens
lens membrane proteins MP20 and connexin46: TENBROEK, ARNESON, JARVIS AND LOUIS **103**, 245.
Leukemia
lamin A redistribution during differentiation: COLLARD, SENECAL AND RAYMOND **101**, 657.
Leupeptin
transport to prelysosomal compartments: ZACHGO, DOBBERSTEIN AND GRIFFITHS **103**, 811.
Light chains
clathrin light-chain-like polypeptides: LIN, HARLEY, BUTLER AND BEEVERS **103**, 1127.
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
Light intensity
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
Lipid droplets
lipid droplets and intermediate filaments: ALMAHBOBI, WILLIAMS AND HALL **101**, 383.
Lipids
malarial parasitophorous vacuole: DLUZEWSKI, MITCHELL, FRYER, GRIFFITHS, WILSON AND GRATZER **102**, 527.
Lipocortin
effects of mammalian annexins in yeast: CREUTZ, KAMBOURIS, SNYDER, HAMMAN, NELSON, LIU AND ROCK **103**, 1177.
Liver regeneration
surface expression of fibronectin: PUJADES, FORSBERG, ENRICH AND JOHANSSON **102**, 815.
LLC-PK$_1$ cells
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Locomotion
orientation and locomotion in chemotaxis: VAN DIUJN AND VAN HAASTERT **102**, 763.
Lucifer Yellow transport
LYCH transport in oat aleurone protoplasts: WRIGHT, DAVIES, STEELE, LEIGH AND OPARKA **102**, 133.
Lymphocyte function-associated antigen 1
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
Lymphocytes
β_1 integrins and lymphocyte adhesion to high endothelium: SZEKANECZ, HUMPHRIES AND AGER **101**, 885.
Lysosome movement
in permeabilized macrophages: SWANSON, LOCKE, ANSEL AND HOLLENBECK **103**, 201.
Lysosomes
autophagic vacuoles rapidly fuse with lysosomes: LAWRENCE AND BROWN **102**, 515.
endocytosis mutants in *Dictyostelium*: BOF, BRENOT, GONZALEZ, KLEIN, MARTIN AND SATRE **101**, 139.
intracellular trafficking in *Leishmania*-infected macrophages: RUSSELL, XU AND CHAKRABORTY **103**, 1193.
localization of cytoplasmic dynein: LIN AND COLLINS **101**, 125.

M-phase promoting factor
a Ca^{2+}-dependent wave of intracellular pH change: GRANDIN AND CHARBONNEAU **101**, 55.

Macrophages
capacity for phagocytosis: CANNON AND SWANSON **101**, 907.
intracellular trafficking in *Leishmania*-infected macrophages: RUSSELL, XU AND CHAKRABORTY **103**, 1193.
lysosome movement in permeabilized macrophages: SWANSON, LOCKE, ANSEL AND HOLLENBECK **103**, 201.
macropinocytosis uncouples endocytosis: RACOOSIN AND SWANSON **102**, 867.
Macropinocytosis
macropinocytosis uncouples endocytosis: RACOOSIN AND SWANSON **102**, 867.
Magnetic beads
activating cell adhesion: CURTIS, MCGRATH AND GASMI **101**, 427.
Magnolia
control of division plane in *Magnolia* microsporocytes: BROWN AND LEMMON **103**, 1031.
Malaria
malarial parasitophorous vacuole: DLUZEWSKI, MITCHELL, FRYER, GRIFFITHS, WILSON AND GRATZER **102**, 527.
Malignancy
antisense inhibition of involucrin synthesis: GRIFFIN AND HARRIS **102**, 799.
Malpighian tubules
dye transport in insect Malpighian tubules: MEULEMANS AND DE LOOF **101**, 349.
Mammary cells
microtubules and secretion from mammary cells: RENNISON, HANDEL, WILDE AND BURGOYNE **102**, 239.
Mammary gland
morphogenesis and the $\alpha_2\beta_1$ integrin: BERDICHEVSKY, GILBERT, SHEARER AND TAYLOR-PAPADIMITRIOU **102**, 437.
muc-1 regulation in mouse: PARRY, LI, STUBBS, BISSELL, SCHMIDHAUSER, SPICER AND GENDLER **101**, 191.
MAP1B
transfection of MAPs in fibroblasts: TAKEMURA, OKABE, UMEYAMA, KANAI, COWN AND HIROKAWA **103**, 953.
MAP2
microtubule dynamics during mitosis: FARUKI, DOREE AND KARSENTI **101**, 69.
transfection of MAPs in fibroblasts: TAKEMURA, OKABE, UMEYAMA, KANAI, COWN AND HIROKAWA **103**, 953.
Marrow
bone-marrow-derived chondrogenesis: BERRY, GRANT, MCCLURE AND ROONEY **101**, 333.
MCF-7 cells
intranuclear co-location of replicated DNA and PCNA: HUMBERT, SANTISTEBAN, USSON AND ROBERT-NICOUD **103**, 97.
MDCK cells
cell guidance by patterned adhesion: CLARK, CONNOLLY AND MOORES **103**, 287.
junctional stability in MDCK cells: BOGNER, SKEHANT, KENNEY, SAINZ AND FRIEDMAN **103**, 463.
protein secretion by epithelial cells: SOOLE, HALL, JEPSON, HAZLEWOOD, GILBERT AND HIRST **102**, 495.
mdx
single-stranded DNA breaks in regenerating muscle: COULTON, ROGERS, STRUTT, SKYNNER AND WATT **102**, 653.
Mealybug
Drosophila homologs from a mealybug: EPSTEIN, JAMES AND SINGH **101**, 463.
Mechanical disruption
syringe loading: CLARKE AND MCNEIL **102**, 533.
Meiosis
genome separation in reconstructed metaphases: SCHWARZACHER, HESLOP-HARRISON, ANAMTHAWAT-JONSSON, FINCH AND BENNETT **101**, 13.
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.
Meiotic spindle bipolarity
spindle localization of ncd: HATSUMI AND ENDOW **103**, 1013.
Meiotic/mitotic chromosome distrubution
meiosis and mitosis in ncd mutants: HATSUMI AND ENDOW **101**, 547.
Melanoma
contact stimulation of cell migration: THOMAS AND YAMADA **103**, 1211.
Membrane
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.
rod outer segment tubulin: MATESIC, PHILIP, MURRAY AND LIEBMAN **103**, 157.
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Membrane association
isoprenylation of rab proteins: PETER, CHAVRIER, NIGG AND ZERIAL **102**, 857.
Membrane fusion
early endosome plasticity: PARTON, SCHROTZ, BUCCI AND GRUENBERG **103**, 335.
the mechanics of biological membrane fusion: PLATTNER, KNOLL AND ERXLEBEN **103**, 613.
Membrane glycoproteins
effect of caffeine on SFV membrane proteins: KUISMANEN, JANTTI, MAKIRANTA AND SARIOLA **102**, 505.
Membrane proteins
cell response to adhesive contacts: GINGELL AND OWENS **101**, 255.
endothelial membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.
lens membrane proteins MP20 and connexin46: TENBROEK, ARNESON, JARVIS AND LOUIS **103**, 245.
Membrane skeleton
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
Membrane traffic
rab6p is localized in the *trans*-Golgi network: ANTONY, CIBERT, GERAUD, SANTA MARIA, MARO, MAYAU AND GOUD **103**, 785.
Membrane turnover
myosin in the photoreceptor cilium: WILLIAMS, HALLET AND ARIKAWA **103**, 183.
Merogony
cellularization in *Theileria parva*: SHAW AND TILNEY **101**, 109.
Merozoite
malarial parasitophorous vacuole: DLUZEWSKI, MITCHELL, FRYER, GRIFFITHS, WILSON AND GRATZER **102**, 527.
Merozoite formation
cellularization in *Theileria parva*: SHAW AND TILNEY **101**, 109.

Mesenchymal cells
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
Mesenchyme contractility
dynamics of nucleolar proteins: confocal microscopic study: GAUTIER, ROBERT-NICOUD, GUILLY AND HERNANDEZ-VERDUN **102**, 729.
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.
Messenger RNA
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
c-*met*
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
Metabolic rhythms
ATP and protein synthesis rhythms: BRODSKY, BOIKOV, NECHAEVA, YUROVITSKY, NOVIKOVA, FATEEVA AND SCHEVCHENKO **103**, 363.
Metastasis
tumor proliferation: CARRAWAY, FREGIEN, CARRAWAY AND CARRAWAY **103**, 299.
Methylene diphosphonate
endocytosis mutants in *Dictyostelium*: BOF, BRENOT, GONZALEZ, KLEIN, MARTIN AND SATRE **101**, 139.
Mevalonate
cell cycle regulation in human fibroblasts: LARSSON AND WEJDE **103**, 1065.
Microcarriers
endothelial cell membrane protein polarity: STOLZ AND JACOBSON **103**, 39.
Microcystin-LR
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.
Microcystin-RR
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.
Microfibrils
microfibrillar attachment to smooth muscle cells: KIELTY, WHITTAKER, GRANT AND SHUTTLEWORTH **103**, 445.
microtubules and microfibrils in cotton fibre development: SEAGULL **101**, 561.
Microfilaments
cell and nuclear shape control: SIMS, KARP AND INGBER **103**, 1215.
PKC and focal adhesion formation: WOODS AND COUCHMAN **101**, 277.
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Microglia
modulation of microglia phenotype: PERRY, CROCKER AND GORDON **101**, 201.
Microinjections
a structural role for a conserved IF sequence: KOUKLIS, TRAUB AND GEORGATOS **102**, 31.
brush border-type microvilli depend on myosin II: TEMM-GROVE, HELBING, WIEGAND, HONER AND JOCKUSCH **101**, 599.
MTs and F-actin at the division site: CLEARY, GUNNING, WASTENEYS AND HEPLER **103**, 977.
role of talin in focal adhesions: NUCKOLLS, ROMER AND BURRIDGE **102**, 753.
Micromanipulation
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
Microsporogenesis
control of division plane in *Magnolia* microsporocytes: BROWN AND LEMMON **103**, 1031.
Microtubul motor protein
meiosis and mitosis in ncd mutants: HATSUMI AND ENDOW **101**, 547.
Microtubule-associated proteins (MAP)
brain MAPs modulate dynamic instability: PRYER, WALKER, SKEEN, BOURNS, SOBOEIRO AND SALMON **103**, 965.
localization of cytoplasmic dynein: LIN AND COLLINS **101**, 125.
PKA-induced processes in Sf9 cells: CHELEY, KOSIK, PASKEVICH AND BAYLEY **102**, 739.
T. brucei microtubule cross-bridge protein: WOODS, BAINES AND GULL **103**, 665.
transfection of MAPs in fibroblasts: TAKEMURA, OKABE, UMEYAMA, KANAI, COWN AND HIROKAWA **103**, 953.
β_{III}-tubulin in neuron development: JIANG AND OBLINGER **103**, 643.
Microtubule binding
SPN antigen nucleates microtubules: KALLAJOKI, WEBER AND OSBORN **102**, 91.
Microtubule bundling
expression of tau protein in 3T3 cells: LEE AND ROOK **102**, 227.
Microtubule dynamics
inhibition of mitosis by drugs: JORDAN, THROWER AND WILSON **102**, 401.
microtubule dynamics during mitosis: FARUKI, DOREE AND KARSENTI **101**, 69.
Microtubule motors
sea urchin egg kinesin-related protein: COLE, CANDE, BASKIN, SKOUFIAS, HOGAN AND SCHOLEY **101**, 291.
spindle localization of ncd: HATSUMI AND ENDOW **103**, 1013.
Microtubule sliding
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.
Microtubule stability
expression of tau protein in 3T3 cells: LEE AND ROOK **102**, 227.
Microtubule translocation
microtubule gliding by inner-arm dynein: KAGAMI AND KAMIYA **103**, 653.
Microtubule turnover
stable microtubules in cell processes: PRESCOTT, DOWRICK AND WARN **102**, 103.
Microtubules
and epithelial polarity: OJAKIAN AND SCHWIMMER **103**, 677.
and microfibrils in cotton fibre development: SEAGULL **101**, 561.
and secretion from mammary cells: RENNISON, HANDEL, WILDE AND BURGOYNE **102**, 239.
brain MAPs modulate dynamic instability: PRYER, WALKER, SKEEN, BOURNS, SOBOEIRO AND SALMON **103**, 965.
C-mitosis: RIEDER AND PALAZZO **102**, 387.
calcium modulates spindle microtubules: ZHANG, WADSWORTH AND HEPLER **102**, 79.

cell surface-associated centrosomes: TUCKER, PATON, RICHARDSON, MOGENSEN AND RUSSELL **102**, 215.
collagens in fish scales: ZYLBERBERG, BONAVENTURE, COHEN-SOLAR, HARTMANN AND BEREITER-HAHN **103**, 273.
control of division plane in *Magnolia* microsporocytes: BROWN AND LEMMON **103**, 1031.
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
disorganization of the Golgi complex: THYBERG AND MOSKALEWSKI **103**, 1167.
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.
inhibition of disappearance of PPBs: KATSUTA AND SHIBAOKA **103**, 397.
lysosome movement in permeabilized macrophages: SWANSON, LOCKE, ANSEL AND HOLLENBECK **103**, 201.
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.
MTOC relocation in PMNs: CHIPLONKAR, VANDRE AND ROBINSON **102**, 723.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
the macrophage capacity for phagocytosis: CANNON AND SWANSON **101**, 907.
tissue differentiation in maize roots: BALUSKA, PARKER AND BARLOW **103**, 191.
transfection of MAPs in fibroblasts: TAKEMURA, OKABE, UMEYAMA, KANAI, COWN AND HIROKAWA **103**, 953.
β_{III}-tubulin in neuron development: JIANG AND OBLINGER **103**, 643.

Microvessel
a heparin-binding mitogen for pericytes: SWINSCOE AND CARLSON **103**, 453.

Microvilli
brush border-type microvilli depend on myosin II: TEMM-GROVE, HELBING, WIEGAND, HONER AND JOCKUSCH **101**, 599.

Migration
cytokeratins and epithelial cell behaviour: ROBEY, HISCOTT AND GRIERSON **102**, 329.
integrin expression in the small intestine: BEAULIEU **102**, 427.
role of talin in focal adhesions: NUCKOLLS, ROMER AND BURRIDGE **102**, 753.

Mitochondria
atypical localization of brown adipocytes: COUSIN, CINTI, MORRONI, RAIMBAULT, RICQUIER, PENICAUD AND CASTEILLA **103**, 931.
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
visualization of DNA within mitochondria: LIU, EL-ALFY AND LEBLOND **101**, 785.

Mitochondrial nuclei (nucleoids)
preferential DNA synthesis in *N. tabacum*: SUZUKI, KAWANO, SAKAI, FUJIE, KUROIWA, NAKAMURA AND KUROIWA **103**, 831.
synthesis of mitochondrial DNA in *P. zonale*: KUROIWA, MAKOTO AND KUROIWA **101**, 483.

Mitogenesis
protein kinase C and cell growth: CLEMENS, TRAYNER AND MENAYA **103**, 881.

Mitosis
Prorocentrum micans nucleolus behaviour: SOYER-GOBILLARD AND GERAUD **102**, 475.
calcium modulates spindle microtubules: ZHANG, WADSWORTH AND HEPLER **102**, 79.
chromosome segregation: SUMNER **103**, 105.
cyclic redistribution of cytostellin: WARREN, LANDOLFI, CURTIS AND MORROW **103**, 381.
cytokinesis defect in *pebble* mutants: LEHNER **103**, 1021.
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.
effects of okadaic acid on mitotic cells: GHOSH, PAWELETZ AND SCHROETER **103**, 117.
evolution and metaphase: NICKLAS AND ARANA **102**, 681.
fluorescence in situ hybridization in yeast: UZAWA AND YANAGIDA **101**, 267.
formation of metaphase spindle: LESLIE **103**, 125.
inhibition of mitosis by drugs: JORDAN, THROWER AND WILSON **102**, 401.
kinesin-related proteins and mitosis: SAWIN, MITCHISON AND WORDEMAN **101**, 303.
M-phase-promoting factor activation: MEIKRANTZ AND SCHLEGEL **101**, 475.
mimicking mitotic Golgi disassembly: LUCOCQ **103**, 875.
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.

Mitotic block
mitotic block induced by okadaic acid: VANDRE AND WILLS **101**, 79.

Mitotic control
control of nuclear envelope assembly: VIGERS AND LOHKA **102**, 273.

Mitotic cycle
C-mitosis: RIEDER AND PALAZZO **102**, 387.
synthesis of mitochondrial DNA in *P. zonale*: KUROIWA, MAKOTO AND KUROIWA **101**, 483.

Mitotic spindle
evolution and metaphase: NICKLAS AND ARANA **102**, 681.
SPN antigen nucleates microtubules: KALLAJOKI, WEBER AND OSBORN **102**, 91.

M nuclear polyhedrosis virus
AcMNPV-induced nuclear F-actin: VOLKMAN, TALHOUK, OPPENHEIMER AND CHARLTON **103**, 15.

Modulation
modulation of microglia phenotype: PERRY, CROCKER AND GORDON **101**, 201.

Moesin
the ezrin-radixin-moesin family: SATO, FUNAYAMA, NAGAFUCHI, YONEMURA, TSUKITA AND TSUKITA **103**, 131.

Molecular interaction
interference in vimentin assembly by peptides: HOFMANN AND HERRMANN **101**, 687.

Molluscs
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.

Monocarboxylic acids
junctional stability in MDCK cells: BOGNER, SKEHANT, KENNEY, SAINZ AND FRIEDMAN **103**, 463.

Monoclonal antibodies
anti-fibronectin antibodies and cell adhesion: UNDERWOOD, DALTON, STEELE, BENNETT AND STRIKE **102**, 833.

distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.
haemocyte heterogeneity in *P. americana*: CHAIN, LEYSHON-SORLAND AND SIVA-JOTHY **103**, 1261.
nuclear matrix-associated substructures: STUURMAN, DE GRAAF, FLOORE, JOSSO, HUMBEL, DE JONG AND VAN DRIEL **101**, 773.

Morphogenesis
morphogenesis and the $\alpha_2\beta_1$ integrin: BERDICHEVSKY, GILBERT, SHEARER AND TAYLOR-PAPADIMITRIOU **102**, 437.

Morphogenetic movement
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.

Motility
responses of streamer F mutants: SEGALL **101**, 589.

Motility factor
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.

Mouse mutant (NCTR-Balb/c)
pancreatic acinar cell granule formation: WEINTRAUB, ABRAMOVICI, AMICHAI, ELDAR, BEN-DOR, PENTCHEV AND HAMMEL **102**, 141.

MPF
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.

MRC 5
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.

mRNA
expression of naked plasmids by myotubes: WOLFF, DOWTY, JIAO, REPETTO, BERG, LUDTKE, WILLIAMS AND SLAUTTERBACK **103**, 1249.

MTJ
dystrophin localization induced by beads: PENG AND CHEN **103**, 551.

MTOCs
MTOC relocation in PMNs: CHIPLONKAR, VANDRE AND ROBINSON **102**, 723.
pericentriolar component: CHEVRIER, KOMESLI, SCHMIT, VANTARD, LAMBERT AND JOB **101**, 823.

Muc-1
muc-1 regulation in mouse: PARRY, LI, STUBBS, BISSELL, SCHMIDHAUSER, SPICER AND GENDLER **101**, 191.

Mucin
muc-1 regulation in mouse: PARRY, LI, STUBBS, BISSELL, SCHMIDHAUSER, SPICER AND GENDLER **101**, 191.

Muscle
sequence of human muscle C-protein: FURST, VINKEMEIER AND WEBER **102**, 769.
single-stranded DNA breaks in regenerating muscle: COULTON, ROGERS, STRUTT, SKYNNER AND WATT **102**, 653.

Muscle differentiation
glucose-6-phosphate isomerase: MORGAN, MOORE, WALSH AND PARTRIDGE **102**, 779.
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.

Muscle fiber formation
skeletal muscle development *in vitro*: SWASDISON AND MAYNE **102**, 643.

Mutations
cell division in *Aspergillus*: DOONAN **103**, 599.

myc
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.

Myoblasts
14 kDa lectin in myoblasts and myotubes: HARRISON AND WILSON **101**, 635.
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.

Myocardium
interendothelial junction in myocardial capillaries: SCHULZE AND FIRTH **101**, 647.

Myofibers
expression of naked plasmids by myotubes: WOLFF, DOWTY, JIAO, REPETTO, BERG, LUDTKE, WILLIAMS AND SLAUTTERBACK **103**, 1249.

Myogenesis
ectopic expression of lamin A in CEM cells: LOURIM AND LIN **103**, 863.
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.

Myogenesis *in vivo*
glucose-6-phosphate isomerase: MORGAN, MOORE, WALSH AND PARTRIDGE **102**, 779.

Myosin
in the photoreceptor cilium: WILLIAMS, HALLET AND ARIKAWA **103**, 183.
isoforms in rabbit aorta: GIURIATO, SCATENA, CHIAVEGATO, TONELLO, SCANNAPIECO, PAULETTO AND SARTORE **101**, 233.
sequence of human muscle C-protein: FURST, VINKEMEIER AND WEBER **102**, 769.

Myosin I
brush border cytoskeleton of Caco-2 clones: PETERSON AND MOOSEKER **102**, 581.
localization of myosin I and II in *Acanthamoeba*: YONEMURA AND POLLARD **102**, 629.
myosin I-like proteins in *Drosophila* retina: HICKS AND WILLIAMS **101**, 247.

Myosin II
localization of myosin I and II in *Acanthamoeba*: YONEMURA AND POLLARD **102**, 629.

Myosin isoforms
myosin isoforms in rabbit aorta: GIURIATO, SCATENA, CHIAVEGATO, TONELLO, SCANNAPIECO, PAULETTO AND SARTORE **101**, 233.
skeletal muscle development *in vitro*: SWASDISON AND MAYNE **102**, 643.

Myotendinous junction
dystrophin localization induced by beads: PENG AND CHEN **103**, 551.

Myotubes
dystrophin and laminin: DICKSON, AZAD, MORRIS, SIMON, NOURSADEGHI AND WALSH **103**, 1223.

N-CAM
cell separation techniques: MURPHY, WATT AND JONES **102**, 789.
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.

Na^+-coupled transporters
PK C regulation of Na,K-pump in intact cells: BERTORELLO **101**, 343.
Na^+-gradient
PK C regulation of Na,K-pump in intact cells: BERTORELLO **101**, 343.
Na^+/H^+ exchanger
PK C regulation of Na,K-pump in intact cells: BERTORELLO **101**, 343.
NAD^+ metabolism
poly ADP-ribosylation in DNA excision repair: ALTHAUS **102**, 663.
NADH dehydrogenase
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
Naegleria
BN46/51, a new nucleolar protein: TRIMBUR AND WALSH **103**, 167.
α-Naphthyl phosphate
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.
ncd mutants
meiosis and mitosis in ncd mutants: HATSUMI AND ENDOW **101**, 547.
Neural crest
contact stimulation of cell migration: THOMAS AND YAMADA **103**, 1211.
random commitment of pluripotent NC cells: BAROFFIO AND BLOT **103**, 581.
Neurobiology
nestin and neurofilaments are closely related: DAHLSTRAND, ZIMMERMAN, MCKAY AND LENDAHL **103**, 589.
Neuroblastoma
$pp60^{c\text{-}src}$/pp38 complex in growth cones: MEYERSON, PFENNINGER AND PAHLMAN **103**, 233.
Neuromuscular junction
ACh receptor clustering induced by polymer beads: BAKER, CHEN AND PENG **102**, 543.
Neuronal development
β_{III}-tubulin in neuron development: JIANG AND OBLINGER **103**, 643.
Neuronal differentiation
$pp60^{c\text{-}src}$/pp38 complex in growth cones: MEYERSON, PFENNINGER AND PAHLMAN **103**, 233.
Neutrophils
α-actin and vinculin in neutrophils: YURUKER AND NIGGLI **101**, 403.
endothelial GAG modulation in inflammation: KLEIN, SHENNAN, HEYDERMAN AND LEVIN **102**, 821.
Nicotiana tabacum
preferential DNA synthesis in *N. tabacum*: SUZUKI, KAWANO, SAKAI, FUJIE, KUROIWA, NAKAMURA AND KUROIWA **103**, 831.
ninaC
myosin I-like proteins in *Drosophila* retina: HICKS AND WILLIAMS **101**, 247.
Nocodazole
inhibition of mitosis by drugs: JORDAN, THROWER AND WILSON **102**, 401.
Noise damage
synchronized hair cell regeneration: STONE AND COTANCHE **102**, 671.
Nonmuscle mysoin
brush border-type microvilli depend on myosin II: TEMM-GROVE, HELBING, WIEGAND, HONER AND JOCKUSCH **101**, 599.
Nuclear architecture
genome separation in reconstructed metaphases: SCHWARZACHER, HESLOP-HARRISON, ANAMTHAWAT-JONSSON, FINCH AND BENNETT **101**, 13.
Nuclear body
nuclear matrix-associated substructures: STUURMAN, DE GRAAF, FLOORE, JOSSO, HUMBEL, DE JONG AND VAN DRIEL **101**, 773.
Nuclear compartmentation
nuclear matrix-associated substructures: STUURMAN, DE GRAAF, FLOORE, JOSSO, HUMBEL, DE JONG AND VAN DRIEL **101**, 773.
Nuclear cycle
Prorocentrum micans nucleolus behaviour: SOYER-GOBILLARD AND GERAUD **102**, 475.
Nuclear envelope
control of nuclear envelope assembly: VIGERS AND LOHKA **102**, 273.
nuclear envelope dynamics in *Drosophila* embryo: RIPARBELLI AND CALLAINI **102**, 299.
Nuclear F-actin
AcMNPV-induced nuclear F-actin: VOLKMAN, TALHOUK, OPPENHEIMER AND CHARLTON **103**, 15.
Nuclear lamina
ectopic expression of lamin A in CEM cells: LOURIM AND LIN **103**, 863.
Nuclear lamins
plant nuclear lamins: MCNULTY AND SAUNDERS **103**, 407.
Nuclear matrix
association of PRP with nuclear matrix: VISHWANATHA, JINDAL AND DAVIS **101**, 25.
nuclear matrix-associated substructures: STUURMAN, DE GRAAF, FLOORE, JOSSO, HUMBEL, DE JONG AND VAN DRIEL **101**, 773.
SPN antigen nucleates microtubules: KALLAJOKI, WEBER AND OSBORN **102**, 91.
Nuclear organization
genome separation in reconstructed metaphases: SCHWARZACHER, HESLOP-HARRISON, ANAMTHAWAT-JONSSON, FINCH AND BENNETT **101**, 13.
Nuclear protein
cyclic redistribution of cytostellin: WARREN, LANDOLFI, CURTIS AND MORROW **103**, 381.
Nuclear protein kinase C
PKC isotypes in human erythroleukemia cells: HOCEVAR, MORROW, TYKOCINSKI AND FIELDS **101**, 671.
Nuclear structure
condensed chromosome arrangement: JEUN AND LOCKE **103**, 839.
cyclic redistribution of cytostellin: WARREN, LANDOLFI, CURTIS AND MORROW **103**, 381.
Nuclear transport
transport requirement in DNA replication: COX **101**, 43.
Nucleocapsid morphogenesis
AcMNPV-induced nuclear F-actin: VOLKMAN, TALHOUK, OPPENHEIMER AND CHARLTON **103**, 15.
Nucleolar antigen
BN46/51, a new nucleolar protein: TRIMBUR AND WALSH **103**, 167.
Nucleolar components
immunodetection of UBF in different cell types: RODRIGO,

RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.

Nucleolus
Prorocentrum micans nucleolus behaviour: SOYER-GOBILLARD AND GERAUD **102**, 475.
artifactual localization of soluble proteins: MELAN AND SLUDER **101**, 731.
dynamics of nucleolar proteins: confocal microscopic study: GAUTIER, ROBERT-NICOUD, GUILLY AND HERNANDEZ-VERDUN **102**, 729.
fluorescence in situ hybridization in yeast: UZAWA AND YANAGIDA **101**, 267.
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.

Nucleus
artifactual localization of soluble proteins: MELAN AND SLUDER **101**, 731.
distribution of PCNA during development: LEIBOVICI, MONOD, GERAUDIE, BRAVO AND MECHALI **102**, 63.
lamin A redistribution during differentiation: COLLARD, SENECAL AND RAYMOND **101**, 657.

Oat (*Avena sativa*)
LYCH transport in oat aleurone protoplasts: WRIGHT, DAVIES, STEELE, LEIGH AND OPARKA **102**, 133.

Oesophagus
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.

Okadaic acid
disorganization of the Golgi complex: THYBERG AND MOSKALEWSKI **103**, 1167.
effects of okadaic acid on mitotic cells: GHOSH, PAWELETZ AND SCHROETER **103**, 117.
mimicking mitotic Golgi disassembly: LUCOCQ **103**, 875.
mitotic block induced by okadaic acid: VANDRE AND WILLS **101**, 79.
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.

Oligodendrocyte
axons, astrocytes and oligodendrocytes: FAWCETT, FERSHT, HOUSDEN, SCHACHNER AND PESHEVA **103**, 571.

Oligodeoxyribonucleotides
antisense oligo inhibition of DNA synthesis: KUMBLE, IVERSEN AND VISHWANATHA **101**, 35.

Oocyte extracts
DNA replication in polytene nuclei: SLEEMAN, LENO, MILLS, FAIRMAN AND LASKEY **101**, 509.

Oocyte nucleus
novel structure in lampbrush chromosomes: SOLOVEI, GAGINSKAYA, ALLEN AND MACGREGOR **101**, 759.

Oocytes
cell cycle of activated oocytes: VINCENT, CHEEK AND JOHNSON **103**, 389.
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.

Oomycetes
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.

Organelle DNA synthesis
preferential DNA synthesis in *N. tabacum*: SUZUKI, KAWANO, SAKAI, FUJIE, KUROIWA, NAKAMURA AND KUROIWA **103**, 831.

Organelle fusion
autophagic vacuoles rapidly fuse with lysosomes: LAWRENCE AND BROWN **102**, 515.

Organelle nuclei
synthesis of mitochondrial DNA in *P. zonale*: KUROIWA, MAKOTO AND KUROIWA **101**, 483.

Organelle positioning
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.

Organelles
association of kinesin with organelles: HENSON, NESBITT, WRIGHT AND SCHOLEY **103**, 309.

Organization
rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.

Organoid
characterization of a hetero-spheroid: TAKEZAWA, YAMAZAKI, MORI, YONAHA AND YOSHIZATO **101**, 495.

Orthopaedic implants
osteoblast culture on titanium surfaces: GROESSNER-SCHREIBER AND TUAN **101**, 209.

Osmium-ammine
visualization of DNA within mitochondria: LIU, EL-ALFY AND LEBLOND **101**, 785.

OsO_4
Golgi complex modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.

Osseointegration
osteoblast culture on titanium surfaces: GROESSNER-SCHREIBER AND TUAN **101**, 209.

Osteoblasts
collagenase synthesis by human osteoblasts: MEIKLE, BORD, HEMBRY, COMPSTON, CROUCHER AND REYNOLDS **103**, 1093.
expression of tenascin by osteoblasts: MACKIE AND TUCKER **103**, 765.
integrin subunit expression in bone cells: CLOVER, DODDS AND GOWEN **103**, 267.
osteoblast culture on titanium surfaces: GROESSNER-SCHREIBER AND TUAN **101**, 209.

Osteoclasts
integrin subunit expression in bone cells: CLOVER, DODDS AND GOWEN **103**, 267.
tumour macrophages resorb bone: QUINN AND ATHANASOU **101**, 681.

Osteogenesis
expression of tenascin by osteoblasts: MACKIE AND TUCKER **103**, 765.
rat adipogenesis and osteogenesis: BERESFORD, BENNETT, DEVLIN, LEBOY AND OWEN **102**, 341.

Outer dense fibers
functional organization of the axoneme: LINDEMANN, ORLANDO AND KANOUS **102**, 249.

Outer hair cells
cortical cytoskeleton in hair cells: HOLLEY, KALINEC AND KACHAR **102**, 569.

Ovarian cancer cells
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.

Overexpression
gene PSE-1 in yeast: CHOW, ASH, DIGNARD AND THOMAS **101**, 709.

p34^{cdc2}
subcellular distribution of cyclin-p34^{cdc2}: LEISS, FELIX AND KARSENTI **102**, 285.
p53
p53 expression in human tumours: MIDGLEY, FISHER, BARTEK, VOJTESEK, LANE AND BARNES **101**, 183.
p65
M-phase-promoting factor activation: MEIKRANTZ AND SCHLEGEL **101**, 475.
p68
effects of mammalian annexins in yeast: CREUTZ, KAMBOURIS, SNYDER, HAMMAN, NELSON, LIU AND ROCK **103**, 1177.
Pancreas
cadherin mediated adhesion in pancreatic islet cells: BAUER, BALSAMO AND LILIEN **103**, 1235.
Pancreatic acinar cells
characterization of p58 in pancreatic cells: LAHTINEN, DAHLLOF AND SARASTE **103**, 321.
pancreatic acinar cell granule formation: WEINTRAUB, ABRAMOVICI, AMICHAI, ELDAR, BEN-DOR, PENTCHEV AND HAMMEL **102**, 141.
Paramecium tetraurelia
precursors of trichocyst matrix proteins: SHIH AND NELSON **103**, 349.
Parasitophorous vacuoles
intracellular trafficking in *Leishmania*-infected macrophages: RUSSELL, XU AND CHAKRABORTY **103**, 1193.
malarial parasitophorous vacuole: DLUZEWSKI, MITCHELL, FRYER, GRIFFITHS, WILSON AND GRATZER **102**, 527.
Parthenogenesis
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.
Parthenogenetic activation
cell cycle of activated oocytes: VINCENT, CHEEK AND JOHNSON **103**, 389.
Patch clamp analysis
ion channels in a tip-growing system: GARRILL, LEW AND HEATH **101**, 721.
the mechanics of biological membrane fusion: PLATTNER, KNOLL AND ERXLEBEN **103**, 613.
Pattern pairing
condensed chromosome arrangement: JEUN AND LOCKE **103**, 839.
PCNA
cell proliferation markers in pea: CITTERIO, SGORBATI, LEVI, COLOMBO AND SPARVOLI **102**, 71.
distribution of PCNA during development: LEIBOVICI, MONOD, GERAUDIE, BRAVO AND MECHALI **102**, 63.
intranuclear co-location of replicated DNA and PCNA: HUMBERT, SANTISTEBAN, USSON AND ROBERT-NICOUD **103**, 97.
Pelargonium zonale
synthesis of mitochondrial DNA in *P. zonale*: KUROIWA, MAKOTO AND KUROIWA **101**, 483.
Peptide antibodies
kinesin-related proteins and mitosis: SAWIN, MITCHISON AND WORDEMAN **101**, 303.
sea urchin egg kinesin-related protein: COLE, CANDE, BASKIN, SKOUFIAS, HOGAN AND SCHOLEY **101**, 291.
Peptides
internalization and nuclear addressing of a polypeptide: PEREZ, JOLIOT, BLOCH-GALLEGO, ZAHRAOUI, TRILLER AND PROCHIANTZ **102**, 717.
Pericellular microenvironment
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
Pericentric inversion
characterization of qh region of chromosome 9: LUKE, VERMA, CONTE AND MATHEWS **103**, 919.
Pericytes
a heparin-binding mitogen for pericytes: SWINSCOE AND CARLSON **103**, 453.
Periplaneta americana
haemocyte heterogeneity in *P. americana*: CHAIN, LEYSHON-SORLAND AND SIVA-JOTHY **103**, 1261.
Permeability
histamine and endothelial cell permeability: TAKEDA, YAMASHITA, SHIMAZAKI AND MITSUI **101**, 745.
pH
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
Phagocytosis
the macrophage capacity for phagocytosis: CANNON AND SWANSON **101**, 907.
Phaseolus vulgaris
cell to collagen interactions via glycoprotein: ASAGA AND YOSHIZATO **101**, 625.
Phorbol esters
protein kinase C and cell growth: CLEMENS, TRAYNER AND MENAYA **103**, 881.
Phosphatase inhibitor
mitotic block induced by okadaic acid: VANDRE AND WILLS **101**, 79.
Phosphatases 1 and 2A
effects of okadaic acid on mitotic cells: GHOSH, PAWELETZ AND SCHROETER **103**, 117.
Phospholipids
phospholipid accumulation in schistosomes: FURLONG, THIBAULT AND ROGERS **103**, 823.
Phosphoreceptor
myosin I-like proteins in *Drosophila* retina: HICKS AND WILLIAMS **101**, 247.
Phosphorylation
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
inhibition of disappearance of PPBs: KATSUTA AND SHIBAOKA **103**, 397.
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.
PKA-induced processes in Sf9 cells: CHELEY, KOSIK, PASKEVICH AND BAYLEY **102**, 739.
vertebrate p34^{cdc2} phosphorylation site mutants: KREK, MARKS, SCHMITZ, NIGG AND SIMANIS **102**, 43.
Photolithography
cell guidance by patterned adhesion: CLARK, CONNOLLY AND MOORES **103**, 287.
Photoreceptor
myosin in the photoreceptor cilium: WILLIAMS, HALLET AND ARIKAWA **103**, 183.
rod outer segment tubulin: MATESIC, PHILIP, MURRAY AND LIEBMAN **103**, 157.
Phragmoplasts
control of division plane in *Magnolia* microsporocytes: BROWN AND LEMMON **103**, 1031.
Pisum sativum
plant nuclear lamins: MCNULTY AND SAUNDERS **103**, 407.
Plane of division
cell shape and chromosome orientation in roots: OUD AND NANNINGA **103**, 847.

Plant cells
pericentriolar component: CHEVRIER, KOMESLI, SCHMIT, VANTARD, LAMBERT AND JOB **101**, 823.
Plasma membrane
domains on *Fucus* egg plasma membranes: STAFFORD, GREEN AND CALLOW **101**, 437.
syringe loading: CLARKE AND MCNEIL **102**, 533.
Plasmid DNA
expression of naked plasmids by myotubes: WOLFF, DOWTY, JIAO, REPETTO, BERG, LUDTKE, WILLIAMS AND SLAUTTERBACK **103**, 1249.
Plasmid replication
plasmid replication in *Xenopus* eggs: SANCHEZ, MAREK AND WANGH **103**, 907.
Plastid nuclei (nucleoids)
preferential DNA synthesis in *N. tabacum*: SUZUKI, KAWANO, SAKAI, FUJIE, KUROIWA, NAKAMURA AND KUROIWA **103**, 831.
Platelet-derived growth factor
cytokine effects on collagen gel contraction: TINGSTROM, HELDIN AND RUBIN **102**, 315.
PMNs
F-actin localization in polymorphonuclear leucocytes: LEPIDI, BENOLIEL, MEGE, BONGRAND AND CAPO **103**, 145.
MTOC relocation in PMNs: CHIPLONKAR, VANDRE AND ROBINSON **102**, 723.
Podophyllotoxin
inhibition of mitosis by drugs: JORDAN, THROWER AND WILSON **102**, 401.
Polar epithelial cells
PK C regulation of Na,K-pump in intact cells: BERTORELLO **101**, 343.
Polarity
free Ca^{2+} gradient in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.
Polarized secretion
protein secretion by epithelial cells: SOOLE, HALL, JEPSON, HAZLEWOOD, GILBERT AND HIRST **102**, 495.
Pole cells
cytokinesis defect in *pebble* mutants: LEHNER **103**, 1021.
Pollen
control of division plane in *Magnolia* microsporocytes: BROWN AND LEMMON **103**, 1031.
Pollen tube
free Ca^{2+} gradient in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.
Polytene nuclei
DNA replication in polytene nuclei: SLEEMAN, LENO, MILLS, FAIRMAN AND LASKEY **101**, 509.
Postcommitment periods
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
Pre-endosomal vesicles
early endosomes of *Paramecium*: ALLEN, SCHROEDER AND FOK **101**, 449.
Pre-Golgi compartment
characterization of p58 in pancreatic cells: LAHTINEN, DAHLLOF AND SARASTE **103**, 321.
Pre-lysosomal compartments
pre-lysosomal compartments in *T. cruzi*: SOARES, SOUTO-PADRON AND DE SOUZA **102**, 157.
Precommitment periods
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
Premature chromosome condensation
kinetochore formation after PCC: RATTNER AND WANG **103**, 1039.
Preprophase band
disruption of preprophase band during mitosis: MURATA AND WADA **101**, 93.
effect of cytochalasin D on preprophase band organization: ELEFTHERIOU AND PALEVITZ **103**, 989.
inhibition of disappearance of PPBs: KATSUTA AND SHIBAOKA **103**, 397.
Primary culture
primary culture of intestinal epithelium: FUKAMACHI **103**, 511.
Primary hepatocytes
characterization of a hetero-spheroid: TAKEZAWA, YAMAZAKI, MORI, YONAHA AND YOSHIZATO **101**, 495.
Primer recognition proteins
antisense oligo inhibition of DNA synthesis: KUMBLE, IVERSEN AND VISHWANATHA **101**, 35.
association of PRP with nuclear matrix: VISHWANATHA, JINDAL AND DAVIS **101**, 25.
Process formation
PKA-induced processes in Sf9 cells: CHELEY, KOSIK, PASKEVICH AND BAYLEY **102**, 739.
Processing
processing of chemotactic peptides in *Tetrahymena*: LEICK **103**, 565.
Promonocytic cells
vimentin expression in promonocytic cells: RIUS AND ALLER **101**, 395.
Promoters
transactivation by HNF1 and LAP: ANGRAND, ROUSSET AND WEISS **103**, 1083.
Prorocentrum micans
nucleolus behaviour: SOYER-GOBILLARD AND GERAUD **102**, 475.
Prostate
differentiated adult prostate epithelium: HAYWARD, DEL BUONO, DESHPANDE AND HALL **102**, 361.
9E3 Protein
immunoprecipitation and immunolabeling of 9E3: MARTINS-GREEN, AOTAKI-KEEN, HJELMELAND AND BISSELL **101**, 701.
Protein crystals
structure and assembly of *Ascaris MSP*: KING, STEWART, ROBERTS AND SEAVY **101**, 847.
Protein degradation
Ca^{2+} and protein secretion in *Dictyostelium*: COUKELL, CAMERON AND ADAMES **103**, 371.
Protein kinase A
PKA-induced processes in Sf9 cells: CHELEY, KOSIK, PASKEVICH AND BAYLEY **102**, 739.
Protein kinase C
and focal adhesion formation: WOODS AND COUCHMAN **101**, 277.
regulation of Na,K-pump in intact cells: BERTORELLO **101**, 343.
Protein localization
artifactual localization of soluble proteins: MELAN AND SLUDER **101**, 731.
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
Protein phosphatase
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.

Protein secretion
14 kDa lectin in myoblasts and myotubes: HARRISON AND WILSON **101**, 635.
Ca^{2+} and protein secretion in *Dictyostelium*: COUKELL, CAMERON AND ADAMES **103**, 371.
Protein sorting
epithelial cell polarity: WOLLNER AND NELSON **102**, 185.
protein secretion by epithelial cells: SOOLE, HALL, JEPSON, HAZLEWOOD, GILBERT AND HIRST **102**, 495.
Protein synthesis
ATP and protein synthesis rhythms: BRODSKY, BOIKOV, NECHAEVA, YUROVITSKY, NOVIKOVA, FATEEVA AND SCHEVCHENKO **103**, 363.
meiotic cell cycle in mouse oocytes: KUBIAK, WEBER, GERAUD AND MARO **102**, 457.
Protein targeting
ER targeting in plants: NAPIER, FOWKE, HAWES, LEWIS AND PELHAM **102**, 261.
Protein-tyrosine kinase
tyrosine phosophorylation of actin: SCHWEIGER, MIHALACHE, ECKE AND GERISCH **102**, 601.
Proteins
adhesion of Golgi cisternae: CLUETT AND BROWN **103**, 773.
Proteolysis
filensin-membrane interactions: BRUNKENER AND GEORGATOS **103**, 709.
Protofilaments
protein domains in vimentin IF assembly: TRAUB, SCHERBARTH, WIEGERS AND SHOEMAN **101**, 363.
Protozoa
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
Pseudomicrothorax
distribution of epiplasmic proteins: CURTENAZ AND PECK **103**, 1117.
Pseudopodia
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.

qh region
characterization of qh region of chromosome 9: LUKE, VERMA, CONTE AND MATHEWS **103**, 919.
Quantitative immunoblotting
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.
Quick-freeze deep-etch
early endosomes of *Paramecium*: ALLEN, SCHROEDER AND FOK **101**, 449.

rab proteins
isoprenylation of rab proteins: PETER, CHAVRIER, NIGG AND ZERIAL **102**, 857.
Radixin
the ezrin-radixin-moesin family: SATO, FUNAYAMA, NAGAFUCHI, YONEMURA, TSUKITA AND TSUKITA **103**, 131.
Random commitment
random commitment of pluripotent NC cells: BAROFFIO AND BLOT **103**, 581.
RCCI
DNA-binding domain of RCCI protein: SEINO, HISAMOTO, UZAWA, SEKIGUCHI AND NISHIMOTO **102**, 393.
rDNA
rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.
rDNA transcription
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
Reabsorption
dye transport in insect Malpighian tubules: MEULEMANS AND DE LOOF **101**, 349.
Receptors
epidermal cell migration: MAHAN AND DONALDSON **101**, 173.
modulation of microglia phenotype: PERRY, CROCKER AND GORDON **101**, 201.
Recycling
recycling pathways of glucosylceramide: KOK, HOEKSTRA, ESKELINEN AND HOEKSTRA **103**, 1139.
Refractive index
corneal lens protein of *Drosophila*: KOMORI, USUKURA AND MATSUMOTO **102**, 191.
Regeneration
single-stranded DNA breaks in regenerating muscle: COULTON, ROGERS, STRUTT, SKYNNER AND WATT **102**, 653.
Renal epithelial cells
cadmium stimulates DNA synthesis: VON ZGLINICKI, EDWALL, OSTLUND, LIND, NORDBERG, RINGERTZ AND WROBLEWSKI **103**, 1073.
Repair
wound keratinocytes and integrin modulation: GRINNELL **101**, 1.
Replication fork clusters
DNA replication in polytene nuclei: SLEEMAN, LENO, MILLS, FAIRMAN AND LASKEY **101**, 509.
Retina
a heparin-binding mitogen for pericytes: SWINSCOE AND CARLSON **103**, 453.
myosin I-like proteins in *Drosophila* retina: HICKS AND WILLIAMS **101**, 247.
Retinoic acid
antigenic modulation of ovarian cancer cells: GRUNT, SOMAY, OELLER, DITTRICH AND DITTRICH **103**, 501.
retinoic acid receptors in cultured skin cells: REDFERN AND TODD **102**, 113.
Rhodamine 123
dye transport in insect Malpighian tubules: MEULEMANS AND DE LOOF **101**, 349.
Rhodamine-phalloidin
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
12 S Ribosomal RNA
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
16 S Ribosomal RNA
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
RIN cells
insulin and somatostatin gene expression: SAULNIER-MICHEL, FROMONT-RACINE AND PICTET **101**, 795.
Rod domain
protein domains in vimentin IF assembly: TRAUB, SCHERBARTH, WIEGERS AND SHOEMAN **101**, 363.

Root cortex
cell shape and chromosome orientation in roots: OUD AND NANNINGA **103**, 847.
Root meristem
synthesis of mitochondrial DNA in *P. zonale*: KUROIWA, MAKOTO AND KUROIWA **101**, 483.
Roots
tissue differentiation in maize roots: BALUSKA, PARKER AND BARLOW **103**, 191.
rRNA polymerase I transcription factor
immunodetection of UBF in different cell types: RODRIGO, RENDON, TORREBLANCA, GARCIA-HERDUGO AND MORENO **103**, 1053.
Rye
rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.

Salivary glands
Golgi complex modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.
Saprolegnia ferax
ion channels in a tip-growing system: GARRILL, LEW AND HEATH **101**, 721.
Sarcomere
sequence of human muscle C-protein: FURST, VINKEMEIER AND WEBER **102**, 769.
Scanning electron microscopy
novel structure in lampbrush chromosomes: SOLOVEI, GAGINSKAYA, ALLEN AND MACGREGOR **101**, 759.
Scatter factor (SF)
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
stable microtubules in cell processes: PRESCOTT, DOWRICK AND WARN **102**, 103.
Schistosoma mansoni
phospholipid accumulation in schistosomes: FURLONG, THIBAULT AND ROGERS **103**, 823.
Schizosaccharomyces pombe
cytoskeletal and DNA abnormalities in *S. pombe*: MARKS, FANKHAUSER, REYMOND AND SIMANIS **101**, 517.
fission yeast cytokinesis: MARKS, FANKHAUSER AND SIMANIS **101**, 801.
vertebrate p34^{cdc2} phosphorylation site mutants: KREK, MARKS, SCHMITZ, NIGG AND SIMANIS **102**, 43.
Sea urchin
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.
Sea urchin egg
a novel egg protein with RNA-binding sequences: BARTON, BONDER, FISHKIND, WARREN AND PRATT **103**, 797.
Secondary cells
dye transport in insect Malpighian tubules: MEULEMANS AND DE LOOF **101**, 349.
Secretion
microtubules and secretion from mammary cells: RENNISON, HANDEL, WILDE AND BURGOYNE **102**, 239.
precursors of trichocyst matrix proteins: SHIH AND NELSON **103**, 349.
Secretory pathway
characterization of p58 in pancreatic cells: LAHTINEN, DAHLLOF AND SARASTE **103**, 321.
Segregation of myogenic cells
cell separation techniques: MURPHY, WATT AND JONES **102**, 789.
SENSE assay
plasmid replication in *Xenopus* eggs: SANCHEZ, MAREK AND WANGH **103**, 907.
Septation
fission yeast cytokinesis: MARKS, FANKHAUSER AND SIMANIS **101**, 801.
Serotonin
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.
Serum-free culture
primary culture of intestinal epithelium: FUKAMACHI **103**, 511.
shibire
tissue-specific spicing of *shibire*: CHEN, BURGESS, VALLEE AND WADSWORTH **103**, 619.
Sialomucin
tumor proliferation: CARRAWAY, FREGIEN, CARRAWAY AND CARRAWAY **103**, 299.
SIMS
subcellular imaging of calcium-calcium exchange: CHANDRA, AUSSERER AND MORRISON **102**, 417.
Sindbis virus
cell surfaces during viral budding: PAVAN, COVELLI, PASCALE, LUCANIA, BONATTI, PINTO DA SILVA AND TORRISI **102**, 149.
Skeletal muscle
N-cadherin in myoblast fusion: MEGE, GOUDOU, DIAZ, NICOLET, GARCIA, GERAUD AND RIEGER **103**, 897.
Small intestine
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
primary culture of intestinal epithelium: FUKAMACHI **103**, 511.
SMC attachment
microfibrillar attachment to smooth muscle cells: KIELTY, WHITTAKER, GRANT AND SHUTTLEWORTH **103**, 445.
Smooth muscle cell differentiation
myosin isoforms in rabbit aorta: GIURIATO, SCATENA, CHIAVEGATO, TONELLO, SCANNAPIECO, PAULETTO AND SARTORE **101**, 233.
Smooth muscle cells
endothelial cell differentiation by TGF-β: ARCINIEGAS, ELLEN AND SCHOR **103**, 521.
myosin isoforms in rabbit aorta: GIURIATO, SCATENA, CHIAVEGATO, TONELLO, SCANNAPIECO, PAULETTO AND SARTORE **101**, 233.
primary cultures of intestinal epithelium: EVANS, FLINT, SOMERS AND POTTEN **101**, 219.
regulation of LDL receptor in Hep G2 cells: MOORBY, GHERARDI, RIDDELL AND BOWYER **103**, 541.
Somatostatin
insulin and somatostatin gene expression: SAULNIER-MICHEL, FROMONT-RACINE AND PICTET **101**, 795.
Specificity
cell separation techniques: MURPHY, WATT AND JONES **102**, 789.
Sperm
c-*ras* proto-oncogene and sperm cell function: NAZ, AHMAD AND KAPLAN **102**, 487.
Sperm flagella
dynein from serotonin-activated cilia and flagella: STEPHENS AND PRIOR **103**, 999.

Sperm populations
aqueous two-phase partition of spermatozoa: HARRISON, JACQUES, MINGUEZ AND MILLER **102**, 123.
Spheroid
characterization of a hetero-spheroid: TAKEZAWA, YAMAZAKI, MORI, YONAHA AND YOSHIZATO **101**, 495.
Spindle localization
spindle localization of ncd: HATSUMI AND ENDOW **103**, 1013.
Spindle motor
meiosis and mitosis in ncd mutants: HATSUMI AND ENDOW **101**, 547.
Spisula solidissima
spindle matrix: STEFFEN AND LINCK **101**, 809.
Spreading
adhesion of chondrocytes to synovial fibroblasts: RAMACHANDRULA, TIKU AND TIKU **101**, 859.
Stable microtubules
stable microtubules in cell processes: PRESCOTT, DOWRICK AND WARN **102**, 103.
Start
cytoskeletal and DNA abnormalities in *S. pombe*: MARKS, FANKHAUSER, REYMOND AND SIMANIS **101**, 517.
Statistical methods
random commitment of pluripotent NC cells: BAROFFIO AND BLOT **103**, 581.
Steroidogenesis
lipid droplets and intermediate filaments: ALMAHBOBI, WILLIAMS AND HALL **101**, 383.
Stretch-activated ion channel
ion channels in a tip-growing system: GARRILL, LEW AND HEATH **101**, 721.
Stroma
differentiated adult prostate epithelium: HAYWARD, DEL BUONO, DESHPANDE AND HALL **102**, 361.
Stromal cells
tumour macrophages resorb bone: QUINN AND ATHANASOU **101**, 681.
Stromal stem cell
bone-marrow-derived chondrogenesis: BERRY, GRANT, MCCLURE AND ROONEY **101**, 333.
Stromal-epithelial interaction
integrin expression in HPV-transformed cells: KAUR AND CARTER **103**, 755.
Stromelysin
collagenase synthesis by human osteoblasts: MEIKLE, BORD, HEMBRY, COMPSTON, CROUCHER AND REYNOLDS **103**, 1093.
Submembranous cytoskeleton
annexin II/pII in the submembranous cytoskeleton: THIEL, OSBORN AND GERKE **103**, 733.
β Subunit
β_4 integrin on endothelium: KENNEL, GODFREY, CH'ANG, LANKFORD, FOOTE AND MAKKINJE **101**, 145.
Succinate dehydrogenase
intestinal mitochondrial gene expression: MACPHERSON, MAYALL, CHESTER, ABBASI, FORGACS, MALCOLM AND PETERS **102**, 307.
SVK14
down-regulation of scatter factor: KAMALATI, THIRUNAVUKARASU, WALLACE, HOLDER, BROOKS, NAKAMURA, STOKER, GHERARDI AND BULUWELA **101**, 323.
Synaptonemal complex
indiscriminate synapsis in *Allium fistulosum*: JENKINS AND OKUMUS **103**, 415.
Synexin
effects of mammalian annexins in yeast: CREUTZ, KAMBOURIS, SNYDER, HAMMAN, NELSON, LIU AND ROCK **103**, 1177.
Synthetic peptides
interference in vimentin assembly by peptides: HOFMANN AND HERRMANN **101**, 687.
Syringe loading
syringe loading: CLARKE AND MCNEIL **102**, 533.

T lymphocyte
force in LFA-1-dependent T cell adhesion: SUNG, KUHLMAN, MALDONADO, LOLLO, CHIEN AND BRIAN **103**, 259.
Talin
role of talin in focal adhesions: NUCKOLLS, ROMER AND BURRIDGE **102**, 753.
the talin-binding domain in vinculin: GILMORE, JACKSON, WAITES AND CRITCHLEY **103**, 719.
Tau
PKA-induced processes in Sf9 cells: CHELEY, KOSIK, PASKEVICH AND BAYLEY **102**, 739.
transfection of MAPs in fibroblasts: TAKEMURA, OKABE, UMEYAMA, KANAI, COWN AND HIROKAWA **103**, 953.
Taxol
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
SPN antigen nucleates microtubules: KALLAJOKI, WEBER AND OSBORN **102**, 91.
Temperature
cell cycle control in *Chlamydomonas eugametos*: ZACHLEDER AND VAN DEN ENDE **102**, 469.
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
Terminal web
brush border-type microvilli depend on myosin II: TEMM-GROVE, HELBING, WIEGAND, HONER AND JOCKUSCH **101**, 599.
Testes
testis gap junctions: RISLEY, TAN, ROY AND SAEZ **103**, 81.
Tetrahymena
processing of chemotactic peptides in *Tetrahymena*: LEICK **103**, 565.
Tetrahymena actin: HOEY AND GAVIN **103**, 629.
TGF-β
regulation of LDL receptor in Hep G2 cells: MOORBY, GHERARDI, RIDDELL AND BOWYER **103**, 541.
TGF-β1
endothelial cell differentiation by TGF-β: ARCINIEGAS, ELLEN AND SCHOR **103**, 521.
Theileria parva
cellularization in *Theileria parva*: SHAW AND TILNEY **101**, 109.
host cell division and differentiation in *Theileria*: SHIELS, KINNAIRD, MCKELLAR, DICKSON, MILED, MELROSE, BROWN AND TAIT **101**, 99.
Thermo-responsive polymer
characterization of a hetero-spheroid: TAKEZAWA, YAMAZAKI, MORI, YONAHA AND YOSHIZATO **101**, 495.
Thermogenic cells
atypical localization of brown adipocytes: COUSIN, CINTI,

MORRONI, RAIMBAULT, RICQUIER, PENICAUD AND CASTEILLA **103**, 931.
Thin filaments
troponin-H on insect thin filaments: NEWMAN, BUTCHER, BULLARD AND LEONARD **101**, 503.
Thin-layer countercurrent partition
aqueous two-phase partition of spermatozoa: HARRISON, JACQUES, MINGUEZ AND MILLER **102**, 123.
Three-dimensional organization
dynamics of nucleolar proteins: confocal microscopic study: GAUTIER, ROBERT-NICOUD, GUILLY AND HERNANDEZ-VERDUN **102**, 729.
Three-dimensional reconstruction
genome separation in reconstructed metaphases: SCHWARZACHER, HESLOP-HARRISON, ANAMTHAWAT-JONSSON, FINCH AND BENNETT **101**, 13.
Thrombospondin
endothelial cell heterogeneity: CANFIELD, WREN, SCHOR, GRANT AND SCHOR **102**, 807.
Tight junctions
endothelial membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.
TIMP-1
collagenase synthesis by human osteoblasts: MEIKLE, BORD, HEMBRY, COMPSTON, CROUCHER AND REYNOLDS **103**, 1093.
Tip growth
actin in oomycete zoosporulation: HEATH AND HAROLD **102**, 611.
free Ca^{2+} gradient in *Lilium* pollen tubes: MILLER, CALLAHAM, GROSS AND HEPLER **101**, 7.
ion channels in a tip-growing system: GARRILL, LEW AND HEATH **101**, 721.
TIRF
TIRFM quantitation of cell adhesion: TRUSKEY, BURMEISTER, GRAPA AND REICHERT **103**, 491.
Tissue architecture
α_6/β_4 integrin distribution: NATALI, NICOTRA, BIGOTTI AND DE MARTINO **103**, 1243.
Tissue culture
rat brain endothelial culture: ABBOTT, HUGHES, REVEST AND GREENWOOD **103**, 23.
Tissue organization
cell shape and chromosome orientation in roots: OUD AND NANNINGA **103**, 847.
Titanium
osteoblast culture on titanium surfaces: GROESSNER-SCHREIBER AND TUAN **101**, 209.
Titin
sequence of human muscle C-protein: FURST, VINKEMEIER AND WEBER **102**, 769.
TNA-binding sequences
a novel egg protein with RNA-binding sequences: BARTON, BONDER, FISHKIND, WARREN AND PRATT **103**, 797.
Tobacco BY-2 cells
inhibition of disappearance of PPBs: KATSUTA AND SHIBAOKA **103**, 397.
Topoisomerases
chromosome segregation: SUMNER **103**, 105.
TPPase
Golgi complex modifications during development: THOMOPOULOS, NEOPHYTOU, ALEXIOU, VADOLAS, LIMBERI-THOMOPOULOS AND DERVENTZI **102**, 169.
Tradescantia virginiana
mitotic regulation in *Tradescantia*: WOLNIAK AND LARSEN **102**, 691.
Transcription
histone H1 and transcription: ZLATANOVA AND VAN HOLDE **103**, 889.
single-stranded DNA breaks in regenerating muscle: COULTON, ROGERS, STRUTT, SKYNNER AND WATT **102**, 653.
transcriptionally active chromatin: AUSIO **102**, 1.
Transcription factors
dimeric transcription factor families: LEE **103**, 9.
transactivation by HNF1 and LAP: ANGRAND, ROUSSET AND WEISS **103**, 1083.
Transferrin
endocytic compartments of transferrin cycle: KILLISCH, STEINLEIN, ROMISCH, HOLLINSHEAD, BEUG AND GRIFFITHS **103**, 211.
Transforming growth factor-β
cytokine effects on collagen gel contraction: TINGSTROM, HELDIN AND RUBIN **102**, 315.
Transient transfections
expression of tau protein in 3T3 cells: LEE AND ROOK **102**, 227.
Transmembrane carriers
internalization and nuclear addressing of a polypeptide: PEREZ, JOLIOT, BLOCH-GALLEGO, ZAHRAOUI, TRILLER AND PROCHIANTZ **102**, 717.
Trichocyst
precursors of trichocyst matrix proteins: SHIH AND NELSON **103**, 349.
Trophoblast
variant BeWo carcinoma cells: APLIN, SATTAR AND MOULD **103**, 435.
Troponin
troponin-H on insect thin filaments: NEWMAN, BUTCHER, BULLARD AND LEONARD **101**, 503.
Trypanosoma brucei
microtubule cross-bridge protein: WOODS, BAINES AND GULL **103**, 665.
Trypanosoma cruzi
pre-lysosomal compartments in *T. cruzi*: SOARES, SOUTO-PADRON AND DE SOUZA **102**, 157.
T. cruzi invasion of mammalian cells: SCHENKMAN AND MORTARA **101**, 895.
Tubulin
cytasters in sea urchin eggs: HARRIS AND CLASON **102**, 557.
modifications of ciliary tubulin during assembly: STEPHENS **101**, 837.
rod outer segment tubulin: MATESIC, PHILIP, MURRAY AND LIEBMAN **103**, 157.
transfection of MAPs in fibroblasts: TAKEMURA, OKABE, UMEYAMA, KANAI, COWN AND HIROKAWA **103**, 953.
Tumour antigens
tumour proliferation: CARRAWAY, FREGIEN, CARRAWAY AND CARRAWAY **103**, 299.
Tumour
p53 expression in human tumours: MIDGLEY, FISHER, BARTEK, VOJTESEK, LANE AND BARNES **101**, 183.
Two-dimensional gel electrophoresis
endothelial membrane protein polarity: STOLZ, BANNISH AND JACOBSON **103**, 53.
Type V collagen
type V collagen and 67 kDa receptor: MINAFRA,

LUPARELLO, PUCCI-MINAFRA, SOBEL AND GARBISA **102**, 323.
Tyrosine phosphorylation
of actin: SCHWEIGER, MIHALACHE, ECKE AND GERISCH **102**, 601.

Ultrastructure
interendothelial junction in myocardial capillaries: SCHULZE AND FIRTH **101**, 647.
type VI collagen in cartilage chondrons: POOLE, AYAD AND GILBERT **103**, 1101.
UVA irradiation
role of genome portions on G_1: GONZALEZ-FERNANDEZ, SANS, ALLER AND DE LA TORRE **103**, 1047.

Vacuolation
LYCH transport in oat aleurone protoplasts: WRIGHT, DAVIES, STEELE, LEIGH AND OPARKA **102**, 133.
Vascular smooth muscle cells
myosin isoforms in rabbit aorta: GIURIATO, SCATENA, CHIAVEGATO, TONELLO, SCANNAPIECO, PAULETTO AND SARTORE **101**, 233.
Vesicle traffic
effects of Brefeldin A on a plant Golgi glycoprotein: SATIAT-JEUNEMAITRE AND HAWES **103**, 1153.
Vesicles
a novel egg protein with RNA-binding sequences: BARTON, BONDER, FISHKIND, WARREN AND PRATT **103**, 797.
endocytosis: WATTS AND MARSH **103**, 1.
Vicia faba
cell shape and chromosome orientation in roots: OUD AND NANNINGA **103**, 847.
Video microscopy
brain MAPs modulate dynamic instability: PRYER, WALKER, SKEEN, BOURNS, SOBOEIRO AND SALMON **103**, 965.
Villin
primary culture of intestinal epithelium: FUKAMACHI **103**, 511.
Vimentin
a structural role for a conserved IF sequence: KOUKLIS, TRAUB AND GEORGATOS **102**, 31.
expression in promonocytic cells: RIUS AND ALLER **101**, 395.
filaments in mouse fibroblasts: COLEMAN AND LAZARIDES **103**, 689.
interference in vimentin assembly by peptides: HOFMANN AND HERRMANN **101**, 687.
lipid droplets and intermediate filaments: ALMAHBOBI, WILLIAMS AND HALL **101**, 383.
protein domains in vimentin IF assembly: TRAUB, SCHERBARTH, WIEGERS AND SHOEMAN **101**, 363.
Xenopus intermediate filament proteins: TORPEY, HEASMAN AND WYLIE **101**, 151.
Vinblastine
inhibition of mitosis by drugs: JORDAN, THROWER AND WILSON **102**, 401.
Vinculin
α-actin and vinculin in neutrophils: YURUKER AND NIGGLI **101**, 403.
role of talin in focal adhesions: NUCKOLLS, ROMER AND BURRIDGE **102**, 753.
the talin-binding domain in vinculin: GILMORE, JACKSON, WAITES AND CRITCHLEY **103**, 719.
Viscosity
interference in vimentin assembly by peptides: HOFMANN AND HERRMANN **101**, 687.
VLA
integrin expression in the small intestine: BEAULIEU **102**, 427.

Wall organization
microtubules and microfibrils in cotton fibre development: SEAGULL **101**, 561.
WCB-1
T. brucei microtubule cross-bridge protein: WOODS, BAINES AND GULL **103**, 665.
Western blot
c-*ras* proto-oncogene and sperm cell function: NAZ, AHMAD AND KAPLAN **102**, 487.
WGA
transport requirement in DNA replication: COX **101**, 43.
Wheat
rDNA localization in cereals: LEITCH, MOSGOLLER, SHI AND HESLOP-HARRISON **101**, 751.
Wool follicle
wool cortical cell differentiation: CAMPBELL, DOLLIN AND ADELSON **102**, 353.
Wound healing
epibolic tissue spreading: ARMSTRONG AND ARMSTRONG **102**, 373.
TGF-β inhibition of MSF: ELLIS, GREY, SCHOR AND SCHOR **102**, 447.
Wound repair
β_1 integrins and keratinocyte activation: KIM, ISHIHARA, LEE, AKIYAMA, YAMADA AND GRINNELL **103**, 743.
wound keratinocytes and integrin modulation: GRINNELL **101**, 1.

Xenopus
a Ca^{2+}-dependent wave of intracellular pH change: GRANDIN AND CHARBONNEAU **101**, 55.
distribution of PCNA during development: LEIBOVICI, MONOD, GERAUDIE, BRAVO AND MECHALI **102**, 63.
dystrophin localization induced by beads: PENG AND CHEN **103**, 551.
intermediate filament proteins: TORPEY, HEASMAN AND WYLIE **101**, 151.
***Xenopus* egg extracts**
DNA replication in polytene nuclei: SLEEMAN, LENO, MILLS, FAIRMAN AND LASKEY **101**, 509.
transport requirement in DNA replication: COX **101**, 43.
***Xenopus* eggs**
plasmid replication in *Xenopus* eggs: SANCHEZ, MAREK AND WANGH **103**, 907.
subcellular distribution of cyclin-$p34^{cdc2}$: LEISS, FELIX AND KARSENTI **102**, 285.

***Zea mays* L.**
ER targeting in plants: NAPIER, FOWKE, HAWES, LEWIS AND PELHAM **102**, 261.
tissue differentiation in maize roots: BALUSKA, PARKER AND BARLOW **103**, 191.